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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:21:53 ; Search time 63 Seconds
(without alignments)
769.991 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQGRSKSGWVENIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 704768 seqs, 123704438 residues

Total number of hits satisfying chosen parameters: 704768

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents AA New:
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1390	99.5	374	6	US-10-100-683-8305
2	1386	99.3	382	6	US-10-797-365-137
3	1386	99.3	382	6	US-10-771-187-137
4	1382	99.1	387	1	PCT-US04-09202-861
5	1379	99.0	374	1	PCT-US04-09202-1040
6	1805	90.2	356	1	PCT-US04-09202-363
7	1784	89.2	356	6	US-10-170-205E-35136
8	1765.5	88.3	389	1	PCT-US04-09202-1010
9	1198.5	59.9	260	6	US-10-897-911-3
10	1198.5	59.9	260	6	US-10-898-615-3
11	645	32.2	273	6	US-10-152-372-540
12	645	32.2	273	6	US-10-123-155-540
13	645	32.2	273	6	US-10-063-685-168
14	645	32.2	273	6	US-10-143-117-540
15	645	32.2	273	6	US-10-127-823A-540
16	645	32.2	273	6	US-10-884-091-18
17	645	32.2	273	6	US-10-897-911-2
18	645	32.2	273	6	US-10-140-923-540
19	645	32.2	273	6	US-10-898-615-2
20	645	32.2	273	6	US-10-143-426-540
21	645	32.2	273	6	US-10-141-756-540
22	645	32.2	273	6	US-10-919-654-3
23	645	32.2	273	6	US-10-919-654-12
24	645	32.2	273	6	US-10-919-654-15
25	645	32.2	273	6	US-10-919-654-56
26	645	32.2	273	6	US-10-141-761-540

27	645	32.2	273	6	US-10-140-472-540	Sequence 540, App
28	645	32.2	273	6	US-10-140-805-540	Sequence 540, App
29	645	32.2	273	6	US-10-140-864-540	Sequence 540, App
30	645	32.2	273	6	US-10-141-759-540	Sequence 540, App
31	645	32.2	273	6	US-10-141-761-540	Sequence 540, App
32	645	32.2	273	6	US-10-142-885-540	Sequence 540, App
33	645	32.2	273	6	US-10-146-731-540	Sequence 540, App
34	576	28.8	232	6	US-10-170-205E-32318	Sequence 32318, A
35	576	28.8	232	6	US-10-917-503-14520	Sequence 14520, A
36	576	28.8	232	6	US-10-919-654-5	Sequence 5, Appli
37	576	28.8	232	6	US-10-919-654-7	Sequence 7, Appli
38	576	28.8	232	6	US-10-919-654-13	Sequence 13, Appli
39	576	28.8	232	6	US-10-919-654-16	Sequence 16, Appli
40	576	28.8	232	6	US-10-919-654-63	Sequence 63, Appli
41	576	28.8	232	6	US-10-919-654-64	Sequence 64, Appli
42	576	28.8	232	6	US-10-919-654-65	Sequence 65, Appli
43	576	28.8	232	6	US-10-919-654-69	Sequence 69, Appli
44	576	28.8	232	6	US-10-919-654-70	Sequence 70, Appli
45	576	28.8	232	6	US-10-919-654-71	Sequence 71, Appli

ALIGNMENTS

RESULT 1
US-10-100-683-8305
; Sequence 8305, Application US/10100683
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900
; CURRENT APPLICATION NUMBER: US/10/100,683
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,501
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,892
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8305
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any amino acid
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any amino acid
US-10-100-683-8305

Query Match 99.5%; Score 1990; DB 6; Length 374;
Best Local Similarity 99.5%; Pred. No. 1.2e-171;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRGGTORPCVKIYFHDTSRRLNFEBAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRGGTORPCVKIYFHDTSRRLNFEBAK 60
 QY 61 EACRRDGGOLVISEDEQKLIETIENLLPSDGFWIGLRREKQSNSTACQDLYAMT 120
 Db 61 EACRRDGGOLVISEDEQKLIETIENLLPSDGFWIGLRREKQSNSTACQDLYAMT 120
 QY 121 DGSISOFNRWYDESCGSEVCVVMYHOPSPAGIGGPMFQWDDRCNMKNFTICKYSD 180
 Db 121 DGSISOFNRWYDESCGSEVCVVMYHOPSPAGIGGPMFQWDDRCNMKNFTICKYSD 180
 QY 181 EKPAVPSREAGEETEELTPVLPEETOEDAKTKFKESREAAALNAYILIPSILLLL 240
 Db 181 EKPAVPSREAGEETEELTPVLPEETOEDAKTKFKESREAAALNAYILIPSILLLL 240
 QY 241 VTTVCVWVICRKRREQDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSEADLAETRP 300
 Db 241 VTTVCVWVICRKRREQDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVEGFTVNDIYEFSPDQNGR 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVEGFTVNDIYEFSPDQNGR 360
 QY 361 SKESGWENEIYGY 374
 Db 361 SKESGWENEIYGY 374

RESULT 2

US-10-797-366-137
 ; Sequence 137, Application US/10797366
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/10797366
 ; PRIOR FILING DATE: 2004-03-09
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-797-366-137
 Query Match 99.3%; Score 1986; DB 6; Length 382;
 Best Local Similarity 97.9%; Pred. No. 2.9e-171;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTORPCVKIYFHDTSR 52
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLGGQPVCRGGTORPCVKIYFHDTSR 60
 QY 53 RLNFEEAKEACRRDGGOLVISEDEQKLIETIENLLPSDGFWIGLRREKQSNSTA 112
 Db 61 RLNFEEAKEACRRDGGOLVISEDEQKLIETIENLLPSDGFWIGLRREKQSNSTA 120
 QY 113 CQDLYAMTSGISOFNRWYVDBPSCGSEVCVVMYHOPSPAGIGGPMFQWDDRCNMKN 172
 Db 121 CQDLYAMTSGISQFRWYVDBPSCGSEVCVVMYHOPSPAGIGGPMFQWDDRCNMKN 180
 QY 173 NFICKYSDEKPAVPSREAGEETEELTPVLPEETOEDAKTKFKESREAAALNAYILIPS 232
 Db 181 NFICKYSDEKPAVPSREAGEETEELTPVLPEETOEDAKTKFKESREAAALNAYILIPS 240
 QY 233 IPLLILLVTTVCVWVICRKRREQDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSE 292
 Db 241 IPLLILLVTTVCVWVICRKRREQDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSE 300
 QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVEGFTVNDIYE 352
 Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVEGFTVNDIYE 360
 QY 353 FSPDQNGRSGESGWENEIYGY 374
 Db 361 FSPDQNGRSGESGWENEIYGY 382

RESULT 3

US-10-771-187-137
 ; Sequence 137, Application US/10771187
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.

APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 39780-1618P2C78C1
CURRENT FILING DATE: 2004-02-02
PRIORITY FILING DATE: 2004-02-02
PRIORITY FILING DATE: 2001-07-18
PRIORITY FILING DATE: 2001-07-18
PRIORITY FILING DATE: 2000-09-18
PRIORITY FILING DATE: 2000-02-22
PRIORITY FILING DATE: 2000-02-22
PRIORITY FILING DATE: 1998-09-17
PRIORITY FILING DATE: 1998-09-17
PRIORITY FILING DATE: 1998-09-16
PRIORITY FILING DATE: 1998-06-04
PRIORITY FILING DATE: 1997-11-24
PRIORITY FILING DATE: 1997-11-24
PRIORITY FILING DATE: 1997-11-12
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-10-771-187-137

Query Match 99.3%; Score 1996; DB 6; Length 382;
Best Local Similarity 97.9%; Pred. No. 2.9e-171;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRGGQFVCRGGTQRCYKVIYFHDTSR 60

QY 53 RLNFEEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGDFFWIGLRREKQSNSTA 112
Db 61 RLNFEEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGDFFWIGLRREKQSNSTA 120

QY 113 CQDLVANTDGSISQFRNWTVDPEPCGSEVVMYHQPAPAGIGGYPYFQWDDRCNNKN 172
Db 121 CQDLVANTDGSISQFRNWTVDPEPCGSEVVMYHQPAPAGIGGYPYFQWDDRCNNKN 180

QY 173 NFICKYSDEKPAVPSREAGEETELTTPVLPETQEDAKTFKESREAAALNLAAILIPS 232
Db 181 NFICKYSDEKPAVPSREAGEETELTTPVLPETQEDAKTFKESREAAALNLAAILIPS 240

QY 233 IPLLLLLVTVVWVWICRKRKREQDPSTKQHTIWPSPHQGNSPDLVYNVIRKQSE 292
Db 241 IPLLLLLVTVVWVWICRKRKREQDPSTKQHTIWPSPHQGNSPDLVYNVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNTDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNTDIYE 360

QY 353 FSPDQMGSKESGWENEIYGY 374
Db 361 FSPDQMGSKESGWENEIYGY 382

RESULT 4
PCT-US04-09202-861
Sequence 861, Application PC/TUS0409202
GENERAL INFORMATION:

APPLICANT: Zhou, Ping
APPLICANT: Tang, Y. Tom
APPLICANT: Hu, Tianhua
APPLICANT: Wang, Jian-Rui
APPLICANT: Wang, Zhi Wei
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
FILE REFERENCE: 824CIP/PCT
CURRENT FILING DATE: 2004-04-06
CURRENT FILING DATE: 2004-04-06
PRIORITY FILING DATE: 2003-03-28
PRIORITY FILING DATE: 2000-12-22
PRIORITY FILING DATE: 2000-12-22
PRIORITY FILING DATE: 2001-01-25
PRIORITY FILING DATE: 2001-02-05
PRIORITY FILING DATE: 2001-02-26
PRIORITY FILING DATE: 2001-02-26
PRIORITY FILING DATE: 2001-03-05
PRIORITY FILING DATE: 2001-03-30
PRIORITY FILING DATE: 2001-05-16
PRIORITY FILING DATE: 2003-06-13
PRIORITY FILING DATE: 2001-08-31
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1150
SOFTWARE: pt_FL_genes Version 6.0
SEQ ID NO 861
LENGTH: 387
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US04-09202-861

Query Match 99.1%; Score 1982; DB 1; Length 387;
Best Local Similarity 98.9%; Pred. No. 6.9e-171;
Matches 370; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRCYKVIYFHDTSR 60
Db 14 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRCYKVIYFHDTSR 73

QY 61 EACRRDGGQLVSISEDEQKLIKFIENLLPSDGDFFWIGLRREKQSNSTA 120
Db 74 EACRRDGGQLVSISEDEQKLIKFIENLLPSDGDFFWIGLRREKQSNSTA 133

QY 121 DGSISQFRNWTVDPEPCGSEVVMYHQPAPAGIGGYPYFQWDDRCNNKNFICKYSD 180
Db 134 DGSISQFRNWTVDPEPCGSEVVMYHQPAPAGIGGYPYFQWDDRCNNKNFICKYSD 193

QY 181 EKPAVPSREAGEETELTTPVLPETQEDAKTFKESREAAALNLAAILIPS 240
Db 194 EKPAVPSREAGEETELTTPVLPETQEDAKTFKESREAAALNLAAILIPS 253

QY 241 VTTVWVWICRKRKREQDPSTKQHTIWPSPHQGNSPDLVYNVIRKQSEADLAETRP 300
Db 254 VTTVWVWICRKRKREQDPSTKQHTIWPSPHQGNSPDLVYNVIRKQSEADLAETRP 313

QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNTDIYFSPDQMG 360
Db 314 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNTDIYFSPDQMG 373

QY 361 SKESGWENEIYGY 374
Db 374 SKESGWENEIYGY 387

RESULT 5

PCT-US04-09202-1040
; Sequence 1040, Application PC/TUS0409202
; GENERAL INFORMATION:

APPLICANT: Zhou, Ping
APPLICANT: Tang, Y. Tom
APPLICANT: Hu, Tianhua
APPLICANT: Wang, Jian-Rui
APPLICANT: Wang, Zhi Wei
APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 824CIP/PCT
; CURRENT APPLICATION NUMBER: PCT/US04/09202
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: US 60/458,824
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 10/296,115
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 10/276,774
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 10/221,279
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 10/276,817
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: US 10/461,673
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 10/363,616
; PRIOR FILING DATE: 2001-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1150
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 1040
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-09202-1040

Query Match 99.0%; Score 1979; DB 1; Length 374;
Best Local Similarity 98.7%; Pred. No. 1.2e-170;
Matches 369; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY	1	MRPGTALQAVLLAVLLVGRATGRLLSQPVCRCGTQPCVKYVYFHDTSRLNFEAK	60
DB	1	NMPGTALQAVLLAVLLVGRATGRLLSQPVCRCGTQPCVKYVYFHDTSRLNFEAK	60
QY	61	EACRRDGGQVLSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT	120
DB	61	EACRRDGGQVLSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT	120
QY	121	DGSIQFRNMYVDEPSCGSEVCVWYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD	180
DB	121	DGSIQFRNMYVDEPSCGSEVCVWYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD	180
QY	181	EXPAVPSRAEGEETLTTPVLPETQEDAKTFKESREALNAYILIPSILLLLV	240
DB	181	EXPAVPSRAEGEETLTTPVLPETQEDAKTFKESREALNAYILIPSILLLLV	240
QY	241	VTTVCWVWICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSEADLAETRP	300
DB	241	VTTVCWVWICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSEADLAETRP	300
QY	301	DLKNTSFRVCSGEATPDDNSCDYDNVAVNPSSGFTLVSVESGFTVNDIYFSPDQMR	360
DB	301	DLKNTSFRVCSGEATPDDNSCDYDNVAVNPSSGFTLVSVESGFTVNDIYFSPDQMR	360
QY	361	SKESGVENEIYGY 374	
DB	361	SKESGVENEIYGY 374	

RESULT 6
PCT-US04-09202-363
; Sequence 363, Application PC/TUS0409202
; GENERAL INFORMATION:
APPLICANT: Zhou, Ping
APPLICANT: Tang, Y. Tom
APPLICANT: Hu, Tianhua
APPLICANT: Wang, Jian-Rui
APPLICANT: Wang, Zhi Wei
APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 824CIP/PCT
; CURRENT APPLICATION NUMBER: PCT/US04/09202
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: US 60/458,824
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 10/296,115
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 10/276,774
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 10/220,366
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 10/221,279
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 10/276,817
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: US 10/461,673
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 10/363,616
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1150
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 363
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-09202-363

Query Match 90.2%; Score 1805; DB 1; Length 356;
Best Local Similarity 97.1%; Pred. No. 6.4e-155;
Matches 334; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY	31	PVRCGTQPCYKVIYFHDTSRLNFEAKACRRDGGQVLSIESDEQKLEKFIENLL	90
DB	13	PVRCGTQPCYKVIYFHDTSRLNFEAKACRRDGGQVLSIESDEQKLEKFIENLL	72
QY	91	PSGDGFVWGLRRREKQSNSTACQDLYAWTDSISQFRNMYVDEPSCGSEVCVWYHQP	150
DB	73	PSGDGFVWGLRRREKQSNSTACQDLYAWTDSISQFRNMYVDEPSCGSEVCVWYHQP	132
QY	151	APAGIGGPMFQWDDRCNMKNFICKYSDKPAVPSRAEGEETLTTPVLPETQED	210
DB	133	APAGIGGPMFQWDDRCNMKNFICKYSDKPAVPSRAEGEETLTTPVLPETQED	192
QY	211	AKTTFKESREALNAYILIPSILLLLVTTVCWVWICRKRKEQDPSTKKQHTI	270
DB	193	AKTTFKESREALNAYILIPSILLLLVTTVCWVWICRKRKEQDPSTKKQHTI	252
QY	271	PSHQNSPDLEVYNVIRKQSEADLAETRPDLKNTSFRVCSGEATPDDNSCDYDNVAVNP	330
DB	253	PSHQNSPDLEVYNVIRKQSEADLAETRPDLKNTSFRVCSGEATPDDNSCDYDNVAVNP	312
QY	331	SESGFTLVSVESGFTVNDIYFSPDQMRKESGVENEIYGY 374	
DB	313	SESGFTLVSVESGFTVNDIYFSPDQMRKESGVENEIYGY 356	


```
RESULT 7
US-10-170-205E-35136
; Sequence 35136, Application US/10170205E
; GENERAL INFORMATION:
; APPLICANT: ADAMS, Mark
; TITLE OF INVENTION: DEVICES, SUCH AS ARRAYS, COMPRISED OF HUMAN PROTEINS OR PROTEIN
; FILE REFERENCE: CAPTURE AGENTS, AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/10/170,205E
; CURRENT FILING DATE: 2002-06-13
; NUMBER OF SEQ ID NOS: 40312
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 35136
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-170-205E-35136

Query Match      89.2%; Score 1784; DB 6; Length 358;
Best Local Similarity 94.1%; Pred. No. 5.1e-153;
Matches 337; Conservative 1; Mismatches 8; Indels 12; Gaps 1;

Qy 29 GQVCRGCTGTPCYKVIYFHDTSRLNFEAEACRRDGGOLVSISEDEOKLIEKTIEN 88
Db 1 GQVCRGCTGTPCYKVIYFHDTSRLNFEAEACRRDGGOLVSISEDEOKLIEKTIEN 60

Qy 89 LLPSDGDFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCVVMYHQ 148
Db 61 LLPSDGDFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCVVMYHQ 120

Qy 149 PSAPAGIGPYFQWDDRCNMKNFICKYSDERKPAVPSREAEGETELTTPVLPEETOE 208
Db 121 PSAPAGIGPYFQWDDRCNMKNFICKYSDERKPAVPSREAEGETELTTPVLPEETOE 180

Qy 209 EDAKTTFKESREAAALNAYILIPSPDLLLVVTVVWCWV-----ICRKRKR 256
Db 181 EDAKTTFKESREAAALNAYILIPSPDLLLVVTVVWCWV-----ICRKRKR 240

Qy 257 EQPDSTKKQHTIMPSPHQGNSPDLEVNVIKQSEADLAETRPDLKNISFRVCSGGEATP 316
Db 241 EQPDSTKKQHTIMPSPHQGNSPDLEVNVIKQSEADLAETRPDLKNISFRVCSGGEATP 300

Qy 317 DDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYERSPDQMGKSGWVENEIYGY 374
Db 301 DDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYERSPDQMGKSGWVENEIYGY 358

RESULT 8
PCT-US04-09202-1010
; Sequence 1010, Application PC/TUS0409202
; GENERAL INFORMATION:
; APPLICANT: Zhou, Ping
; APPLICANT: Tang, Y. Tom
; APPLICANT: Hu, Tianhua
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wang, Zhi Wei
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 824CIP/PCT
; CURRENT APPLICATION NUMBER: PCT/US04/09202
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: US 60/458,824
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 10/296,115
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 10/276,774
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 10/220,366
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 10/221,279
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; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 10/276,817
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: US 10/461,673
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 10/363,616
; PRIOR FILING DATE: 2001-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1150
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 1010
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; LOCATION: (1)-(399)
; OTHER INFORMATION: Xaa = any amino acid or nothing
PCT-US04-09202-1010

Query Match      88.3%; Score 1765.5; DB 1; Length 389;
Best Local Similarity 93.4%; Pred. No. 2.7e-151;
Matches 327; Conservative 9; Mismatches 13; Indels 1; Gaps 1;

Qy 26 LLSGQVCRGCTGTPCYKVIYFHDTSRLNFEAEACRRDGGOLVSISEDEOKLIEKF 85
Db 40 LRGGQVCRGCTGTPCYKVIYFHDTSRLNFEAEACRRDGGOLVSISEDEOKLIEKF 99

Qy 86 IENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCVVM 145
Db 100 IENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCVVM 159

Qy 146 YHQPSPAGIGPYFQWDDRCNMKNFICKYSDERKPAVPSREAEGETELTTPVLPEE 205
Db 160 YHQPSPAGIGPYFQWDDRCNMKNFICKYSDERKPAVPSREAEGETELTTPVLPEE 219

Qy 206 TQSEDAKTTFKESREAAALNAYILIPSPDLLLVVTVVWCWVICRKRREOPDPSTKK 265
Db 220 TQSEDAKTTFKESREAAALNAYILIPSPDLLLVVTVVWCWVICRKRREOPDPSTKK 279

Qy 266 QHTWPSPHQGNSPDLEVNVIKQSEADLAETRPDLKNISFRVCSGGEATPDMSCDYD 324
Db 280 QHTWPSPHQGNSPDLEVNVIKQSEADLAETRPDLKNISFRVCSGGEATPDMSCDYD 339

Qy 325 NMAVNPSESGFVTLVSVESGFVNDIYERSPDQMGKSGWVENEIYGY 374
Db 340 NMAVNPSESGFVTLVSVESGFVNDIYERSPDQMGKSGWVENEIYGY 389
```

```
RESULT 9
US-10-897-911-3
; Sequence 3, Application US/10897911
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Ava Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: C-TYPE LECTIN TRANSMEMBRANE ANTIGEN EXPRESSED IN HUMAN PROSTATE C
; TITLE OF INVENTION: US85 THEREOF
; FILE REFERENCE: 51158-20020.12
; CURRENT APPLICATION NUMBER: US/10/897,911
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 10/460,512
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: 09/638,203
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
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```

; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-10-897-911-3

Query Match      59.9%; Score 1198.5; DB 6; Length 260;
Best Local Similarity 84.2%; Pred. No. 3.3e-100;
Matches 219; Conservative 17; Mismatches 23; Indels 1; Gaps 1;

QY 25 RLLSQGVCRGTGTPCYKVIYFHTSRRLNFEFEAKACRRDGGQLVSIETEDSRKLEK 84
Db 1 RLLSQGVCRGTGTPCYKVIYFHTSRRLNFEFEAKACRRDGGQLVSIETEDSRKLEK 60

QY 85 FIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWWYDPSGSEVCVV 144
Db 61 FIENLLASDGDGFWIGLRLEVKQVNTACQDLYAWTDGSIQFRNWWYDPSGSEVCVV 120

QY 145 MYHQSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDKPA-VPSREAGEETELTTPVLP 203
Db 121 MYHQSAPAGIGGPFYMFQWDDRCNMKNFNICKYADEKFTTPTSPGGEATEPTTPVLP 180

QY 204 ETOBEDAKKTPEKREAAALNAYILIPSLPLLLLVTTTVCWWVICRKRQPDPT 263
Db 181 ETOBEDAKKTPEKREAAALNAYILIPSLPLLLLVTTTVCWWVICRKRQPDPT 240

QY 264 KQOHTIWPSPHQNSPDLEV 283
Db 241 KQOHTIWPSPHQNSPDLEV 260

RESULT 10
US-10-898-615-3
; Sequence 3, Application US/10898615
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: C-TYPE LECTIN TRANSMEMBRANE ANTIGEN EXPRESSED IN HUMAN PROSTATE
; TITLE OF INVENTION: C-TYPE LECTIN TRANSMEMBRANE ANTIGEN EXPRESSED IN HUMAN PROSTATE
; FILE REFERENCE: 51158-20020-11
; CURRENT APPLICATION NUMBER: US/10/898,615
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 10/460,512
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: 09/638,203
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-10-898-615-3

Query Match      59.9%; Score 1198.5; DB 6; Length 260;
Best Local Similarity 84.2%; Pred. No. 3.3e-100;
Matches 219; Conservative 17; Mismatches 23; Indels 1; Gaps 1;

QY 25 RLLSQGVCRGTGTPCYKVIYFHTSRRLNFEFEAKACRRDGGQLVSIETEDSRKLEK 84
Db 1 RLLSQGVCRGTGTPCYKVIYFHTSRRLNFEFEAKACRRDGGQLVSIETEDSRKLEK 60

QY 85 FIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWWYDPSGSEVCVV 144
Db 61 FIENLLASDGDGFWIGLRLEVKQVNTACQDLYAWTDGSIQFRNWWYDPSGSEVCVV 120

QY 145 MYHQSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDKPA-VPSREAGEETELTTPVLP 203
Db 121 MYHQSAPAGIGGPFYMFQWDDRCNMKNFNICKYADEKFTTPTSPGGEATEPTTPVLP 180

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QY 204 ETOBEDAKKTPEKREAAALNAYILIPSLPLLLLVTTTVCWWVICRKRQPDPT 263
Db 181 ETOBEDAKKTPEKREAAALNAYILIPSLPLLLLVTTTVCWWVICRKRQPDPT 240

QY 264 KQOHTIWPSPHQNSPDLEV 283
Db 241 KQOHTIWPSPHQNSPDLEV 260

RESULT 11
US-10-152-372-540
; Sequence 540, Application US/10152372
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330RIC394
; CURRENT APPLICATION NUMBER: US/10/152,372
; CURRENT FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 540
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-152-372-540

Query Match      32.2%; Score 645; DB 6; Length 273;
Best Local Similarity 48.4%; Pred. No. 4.4e-50;
Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;

QY 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHTSRRLNFEFEAKACRRDGGQ 69
Db 8 LLGAALLCGHGAFCRREVVSQKVCVCFADFKHPCKYKAYFHELSRVSFQEARLACEGGV 67

QY 70 LVSISEDSQKLEKFIENLLP-----SDGDWIGLRREERKQSNSTACQDLYAWTDGSI 124

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Db 8 LLGAALLCGHGAFCRRVWSGQKVCFAADFKHPCYKMAYPHELSSRVSFQEARLACESEGGV 67
 QY 70 LVSIESEDEQKLEKFIENLLP-----SDGDFWIGLRREKQSNSTACQDLYAWTDGSI 124
 Db 68 LLSLENEAEQKLESMLQNLTKPGTISDGDWIGLWRNGDQOT--SGACPDLYQWSDGSI 126
 QY 125 SQRNWNVDPEPCGSEKVCVVMYHQSAPAGIGPYPWFQWDDRCNMKNFICKYSDE--KP 183
 Db 127 SQYRNWYTDPEPCGSEKVCVVMYHQSAPAGIGPYPWFQWDDRCNMKNFICKYEPINP 186
 QY 184 AVPSRAEGEETELTPVLPEETQBEDAKTKFKESREAA--NLAYILIPSLPLLLLV 241
 Db 187 TAPV-----EKPYLTNQ--PGDTHQNVV-----VTEAGIIPNLIVYVVIPTPLLLLV 233
 QY 242 TTVCVWVWICRREK-REQPDPTKQHTIWPSPHOGNSPDLEV 283
 Db 234 AFGTCCFQMLHKSGRKTSPN---QSTLWISKSTRKESGMEV 273

RESULT 14

US-10-143-117-540
 ; Sequence 540, Application US/10143117
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE OF INVENTION: ACIDS ENCODING THE SAME
 ; FILE REFERENCE: P3330R1C221
 ; CURRENT APPLICATION NUMBER: US/10/143,117
 ; CURRENT FILING DATE: 2002-03-09
 ; PRIOR APPLICATION NUMBER: 60/049911
 ; PRIOR FILING DATE: 1997-06-18
 ; PRIOR APPLICATION NUMBER: 60/056974
 ; PRIOR FILING DATE: 1997-08-26
 ; PRIOR APPLICATION NUMBER: 60/059113
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059115
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059117
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059122
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059184
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059263
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/059352
 ; PRIOR FILING DATE: 1997-09-19
 ; PRIOR APPLICATION NUMBER: 60/059588
 ; PRIOR FILING DATE: 1997-09-19
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO 540
 ; LENGTH: 273
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-10-143-117-540

Query Match 32.2%; Score 645; DB 6; Length 273;
 Best Local Similarity 48.4%; Pred. No. 4.4e-50;
 Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;
 QY 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKACRRDGGQ 69
 Db 8 LLGAALLCGHGAFCRRVWSGQKVCFAADFKHPCYKMAYPHELSSRVSFQEARLACESEGGV 67
 QY 70 LVSIESEDEQKLEKFIENLLP-----SDGDFWIGLRREKQSNSTACQDLYAWTDGSI 124
 Db 68 LLSLENEAEQKLESMLQNLTKPGTISDGDWIGLWRNGDQOT--SGACPDLYQWSDGSI 126
 QY 125 SQRNWNVDPEPCGSEKVCVVMYHQSAPAGIGPYPWFQWDDRCNMKNFICKYSDE--KP 183
 Db 127 SQYRNWYTDPEPCGSEKVCVVMYHQSAPAGIGPYPWFQWDDRCNMKNFICKYEPINP 186
 QY 184 AVPSRAEGEETELTPVLPEETQBEDAKTKFKESREAA--NLAYILIPSLPLLLLV 241
 Db 187 TAPV-----EKPYLTNQ--PGDTHQNVV-----VTEAGIIPNLIVYVVIPTPLLLLV 233
 QY 242 TTVCVWVWICRREK-REQPDPTKQHTIWPSPHOGNSPDLEV 283
 Db 234 AFGTCCFQMLHKSGRKTSPN---QSTLWISKSTRKESGMEV 273

RESULT 15

US-10-127-823A-540
 ; Sequence 540, Application US/10127823A
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE OF INVENTION: ACIDS ENCODING THE SAME
 ; FILE REFERENCE: 39780-3330R1C189
 ; CURRENT APPLICATION NUMBER: US/10/127,823A
 ; CURRENT FILING DATE: 2002-04-22
 ; PRIOR APPLICATION NUMBER: US 10/028,072
 ; PRIOR FILING DATE: 2001-12-19
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: 2000-12-01
 ; PRIOR APPLICATION NUMBER: US 60/170,262
 ; PRIOR FILING DATE: 1999-12-09
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO 540
 ; LENGTH: 273
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-10-127-823A-540

Query Match 32.2%; Score 645; DB 6; Length 273;
 Best Local Similarity 48.4%; Pred. No. 4.4e-50;
 Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;
 QY 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKACRRDGGQ 69
 Db 8 LLGAALLCGHGAFCRRVWSGQKVCFAADFKHPCYKMAYPHELSSRVSFQEARLACESEGGV 67
 QY 70 LVSIESEDEQKLEKFIENLLP-----SDGDFWIGLRREKQSNSTACQDLYAWTDGSI 124

Fri Sep 10 07:40:19 2004

Db	68	LLSLENEAEQKLIESMLQNLTKPGTGISDGDGFWIGLWRNGDGT-SGACPDLYQWSDGSN 126
Qy	125	SOFENWYVDEPSCGSEYCVWYHOPSAPAGIGGYMFQWDDRCNMKNNTICKYSDE-KP 183
Db	127	SQYRNWYTDPEPCGSEKCVVMIHQFTANPGLGGFYLQWDDRCNMKNNTICKYEPEINP 186
Qy	184	AVPSREAEGETELTTPVLPETOEEDAKKTFKESREAL--NLAYLIPSIPLLLLVV 241
Db	187	TAPV-----EKPYLTNQ--PGDTHQNVV-----VTEAGIIPNLIYVVIPTIPLLLILV 233
Qy	242	TTVVQWVWICKRKX-REQPDPTKKOHTIWPSPHQGNSPDLEV 283
Db	234	AFGTCCFQMLHKSGRTKTSN---QSTLWLSKSTRKESGMEV 273

Search completed: September 9, 2004, 22:31:52

Job time : 64 secs

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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:20:01 ; Search time 20 Seconds
(without alignments)
1798.782 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPTALQAVLAVLLVGLR.....PDQMGSKSGWVENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 78:*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	183	9.2	1456	A36563	mannose receptor p
2	178.5	8.9	1455	A48925	mannose receptor p
3	177	8.8	1268	S52781	neurocan - mouse
4	174.5	8.7	1643	T14274	versican precursor
5	174.5	8.7	3381	T42389	versican precursor
6	174	8.7	1257	S28764	neurocan precursor
7	174	8.7	2397	A55335	versican precursor
8	174	8.7	2409	A60979	versican precursor
9	171	8.6	3562	A47171	chondroitin sulfat
10	170.5	8.5	1479	T42710	mannose receptor,
11	158.5	7.9	1340	A39808	proteoglycan core
12	158.5	7.9	2327	T42630	aggreacan - bovine
13	158.5	7.9	2415	A39086	aggreacan precursor
14	156	7.8	162	LNRC1	lectin BRA3-1 prec
15	154.5	7.7	612	B42755	E-selectin precurs
16	153.5	7.7	2124	A28452	proteoglycan core
17	152	7.6	912	A54423	brevican precursor
18	151	7.5	162	LNRC3	lectin BRA3-2 prec
19	150.5	7.5	459	T24425	hypothetical prote
20	150	7.5	330	T46256	brevican - human (
21	149	7.4	321	LNHUE	IGF Fc receptor II
22	148.5	7.4	152	JC4690	coagulation factor
23	148.5	7.4	404	A46274	HIV gp120-binding
24	148.5	7.4	2132	A55182	aggreacan precursor
25	148	7.4	253	S89130	protein f52E1.2 [i
26	147	7.3	883	S57653	brevican precursor
27	146	7.3	2109	I50421	aggreacan precursor
28	145.5	7.3	742	JC7595	scavenger receptor
29	145	7.2	883	S49126	brevican precursor

30	144.5	7.2	173	2	S10548	lectin - barnacle
31	144.5	7.2	372	2	S23936	L-selectin precurs
32	143.5	7.2	129	2	JC4329	coagulation factor
33	143.5	7.2	372	1	A32375	L-selectin precurs
34	143.5	7.2	463	2	T28655	hypothetical prote
35	143	7.1	321	2	T26152	hypothetical prote
36	142.5	7.1	131	2	JC5058	bitiscatin alpha c
37	142	7.1	1487	2	S48719	phospholipase-A(2)
38	141.5	7.1	165	2	A47148	reg I, regneratin
39	141.5	7.1	331	1	LNMSER	IGF Fc receptor, 1
40	140	7.0	370	2	S22124	L-selectin precurs
41	139	7.0	248	1	LNHUPS	pulmonary surfacta
42	139	7.0	248	1	LNHUP6	pulmonary surfacta
43	139	7.0	248	1	LNHUP1	pulmonary surfacta
44	139	7.0	283	1	LNPHLS	lectin precursor
45	138.5	6.9	172	2	S32489	lectin - Iberian r

ALIGNMENTS

RESULT 1

A36563
mannose receptor precursor - human

C/Species: Homo sapiens (man)
C/Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C/Accession: A36563; A60926; A44255; B44255; C44255; E44255; F44255; G44255; H44255; I44255; J44255; K44255; L44255; M44255; N44255; O44255; P44255; Q44255; R44255; S44255; T44255; U44255; V44255; W44255; X44255; Y44255; Z44255; AA44255; AB44255; AC44255; AD44255; AE44255; AF44255; AG44255; AH44255; AI44255; AJ44255; AK44255; AL44255; AM44255; AN44255; AO44255; AP44255; AQ44255; AR44255; AS44255; AT44255; AU44255; AV44255; AW44255; AX44255; AY44255; AZ44255; BA44255; BB44255; BC44255; BD44255; BE44255; BF44255; BG44255; BH44255; BI44255; BJ44255; BK44255; BL44255; BM44255; BN44255; BO44255; BP44255; BQ44255; BR44255; BS44255; BT44255; BU44255; BV44255; BW44255; BX44255; BY44255; BZ44255; CA44255; CB44255; CC44255; CD44255; CE44255; CF44255; CG44255; CH44255; CI44255; CJ44255; CK44255; CL44255; CM44255; CN44255; CO44255; CP44255; CQ44255; CR44255; CS44255; CT44255; CU44255; CV44255; CW44255; CX44255; CY44255; CZ44255; DA44255; DB44255; DC44255; DD44255; DE44255; DF44255; DG44255; DH44255; DI44255; DJ44255; DK44255; DL44255; DM44255; DN44255; DO44255; DP44255; DQ44255; DR44255; DS44255; DT44255; DU44255; DV44255; DW44255; DX44255; DY44255; DZ44255; EA44255; EB44255; EC44255; ED44255; EE44255; EF44255; EG44255; EH44255; EI44255; EJ44255; EK44255; EL44255; EM44255; EN44255; EO44255; EP44255; EQ44255; ER44255; ES44255; ET44255; EU44255; EV44255; EW44255; EX44255; EY44255; EZ44255; FA44255; FB44255; FC44255; FD44255; FE44255; FF44255; FG44255; FH44255; FI44255; FJ44255; FK44255; FL44255; FM44255; FN44255; FO44255; FP44255; FQ44255; FR44255; FS44255; FT44255; FU44255; FV44255; FW44255; FX44255; FY44255; FZ44255; GA44255; GB44255; GC44255; GD44255; GE44255; GF44255; GG44255; GH44255; GI44255; GJ44255; GK44255; GL44255; GM44255; GN44255; GO44255; GP44255; GQ44255; GR44255; GS44255; GT44255; GU44255; GV44255; GW44255; GX44255; GY44255; GZ44255; HA44255; HB44255; HC44255; HD44255; HE44255; HF44255; HG44255; HH44255; HI44255; HJ44255; HK44255; HL44255; HM44255; HN44255; HO44255; HP44255; HQ44255; HR44255; HS44255; HT44255; HU44255; HV44255; HW44255; HX44255; HY44255; HZ44255; IA44255; IB44255; IC44255; ID44255; IE44255; IF44255; IG44255; IH44255; II44255; IJ44255; IK44255; IL44255; IM44255; IN44255; IO44255; IP44255; IQ44255; IR44255; IS44255; IT44255; IU44255; IV44255; IW44255; IX44255; IY44255; IZ44255; JA44255; JB44255; JC44255; JD44255; JE44255; JF44255; JG44255; JH44255; JI44255; JJ44255; JK44255; JL44255; JM44255; JN44255; JO44255; JP44255; JQ44255; JR44255; JS44255; JT44255; JU44255; JV44255; JW44255; JX44255; JY44255; JZ44255; KA44255; KB44255; KC44255; KD44255; KE44255; KF44255; KG44255; KH44255; KI44255; KJ44255; KK44255; KL44255; KM44255; KN44255; KO44255; KP44255; KQ44255; KR44255; KS44255; KT44255; KU44255; KV44255; KW44255; KX44255; KY44255; KZ44255; LA44255; LB44255; LC44255; LD44255; LE44255; LF44255; LG44255; LH44255; LI44255; LJ44255; LK44255; LL44255; LM44255; LN44255; LO44255; LP44255; LQ44255; LR44255; LS44255; LT44255; LU44255; LV44255; LW44255; LX44255; LY44255; LZ44255; MA44255; MB44255; MC44255; MD44255; ME44255; MF44255; MG44255; MH44255; MI44255; MJ44255; MK44255; ML44255; MN44255; MO44255; MP44255; MQ44255; MR44255; MS44255; MT44255; MU44255; MV44255; MW44255; MX44255; MY44255; MZ44255; NA44255; NB44255; NC44255; ND44255; NE44255; NF44255; NG44255; NH44255; NI44255; NJ44255; NK44255; NL44255; NM44255; NO44255; NP44255; NQ44255; NR44255; NS44255; NT44255; NU44255; NV44255; NW44255; NX44255; NY44255; NZ44255; OA44255; OB44255; OC44255; OD44255; OE44255; OF44255; OG44255; OH44255; OI44255; OJ44255; OK44255; OL44255; OM44255; ON44255; OO44255; OP44255; OQ44255; OR44255; OS44255; OT44255; OU44255; OV44255; OW44255; OX44255; OY44255; OZ44255; PA44255; PB44255; PC44255; PD44255; PE44255; PF44255; PG44255; PH44255; PI44255; PJ44255; PK44255; PL44255; PM44255; PN44255; PO44255; PP44255; PQ44255; PR44255; PS44255; PT44255; PU44255; PV44255; PW44255; PX44255; PY44255; PZ44255; QA44255; QB44255; QC44255; QD44255; QE44255; QF44255; QG44255; QH44255; QI44255; QJ44255; QK44255; QL44255; QM44255; QN44255; QO44255; QP44255; QQ44255; QR44255; QS44255; QT44255; QU44255; QV44255; QW44255; QX44255; QY44255; QZ44255; RA44255; RB44255; RC44255; RD44255; RE44255; RF44255; RG44255; RH44255; RI44255; RJ44255; RK44255; RL44255; RM44255; RN44255; RO44255; RP44255; RQ44255; RR44255; RS44255; RT44255; RU44255; RV44255; RW44255; RX44255; RY44255; RZ44255; SA44255; SB44255; SC44255; SD44255; SE44255; SF44255; SG44255; SH44255; SI44255; SJ44255; SK44255; SL44255; SM44255; SN44255; SO44255; SP44255; SQ44255; SR44255; SS44255; ST44255; SU44255; SV44255; SW44255; SX44255; SY44255; SZ44255; TA44255; TB44255; TC44255; TD44255; TE44255; TF44255; TG44255; TH44255; TI44255; TJ44255; TK44255; TL44255; TM44255; TN44255; TO44255; TP44255; TQ44255; TR44255; TS44255; TT44255; TU44255; TV44255; TW44255; TX44255; TY44255; TZ44255; UA44255; UB44255; UC44255; UD44255; UE44255; UF44255; UG44255; UH44255; UI44255; UJ44255; UK44255; UL44255; UM44255; UN44255; UO44255; UP44255; UQ44255; UR44255; US44255; UT44255; UU44255; UV44255; UW44255; UX44255; UY44255; UZ44255; VA44255; VB44255; VC44255; VD44255; VE44255; VF44255; VG44255; VH44255; VI44255; VJ44255; VK44255; VL44255; VM44255; VN44255; VO44255; VP44255; VQ44255; VR44255; VS44255; VT44255; VU44255; VV44255; VW44255; VX44255; VY44255; VZ44255; WA44255; WB44255; WC44255; WD44255; WE44255; WF44255; WG44255; WH44255; WI44255; WJ44255; WK44255; WL44255; WM44255; WN44255; WO44255; WP44255; WQ44255; WR44255; WS44255; WT44255; WU44255; WV44255; WW44255; WX44255; WY44255; WZ44255; XA44255; XB44255; XC44255; XD44255; XE44255; XF44255; XG44255; XH44255; XI44255; XJ44255; XK44255; XL44255; XM44255; XN44255; XO44255; XP44255; XQ44255; XR44255; XS44255; XT44255; XU44255; XV44255; XW44255; XX44255; XY44255; XZ44255; YA44255; YB44255; YC44255; YD44255; YE44255; YF44255; YG44255; YH44255; YI44255; YJ44255; YK44255; YL44255; YM44255; YN44255; YO44255; YP44255; YQ44255; YR44255; YS44255; YT44255; YU44255; YV44255; YW44255; YX44255; YY44255; YZ44255; ZA44255; ZB44255; ZC44255; ZD44255; ZE44255; ZF44255; ZG44255; ZH44255; ZI44255; ZJ44255; ZK44255; ZL44255; ZM44255; ZN44255; ZO44255; ZP44255; ZQ44255; ZR44255; ZS44255; ZT44255; ZU44255; ZV44255; ZW44255; ZX44255; ZY44255; ZZ44255;

A/Accession: A36563
A/Molecule type: mRNA
A/Residues: 1-1456 <TAY>
A/Cross-references: GB:J05550; NID:G188675; PIDN:AAA9868.1; PID:G188676
A/Note: Parts of this sequence, including the amino end of the mature protein, were conf
B/Ezekowicz, R.A.B.; Sastry, K.; Baillly, P.; Warner, A.
J. Exp. Med. 172, 1785-1794, 1990
A/Title: Molecular characterization of the human macrophage mannose receptor: demonstrat
A/Reference number: A60926; MUID:91079783; PMID:2258707
A/Accession: A60926
A/Status: nucleic acid sequence not shown
A/Molecule type: mRNA
A/Residues: 1-1333, 'T', 1335-1456 <EZE>
A/Cross-references: GB:X55635
A/Note: translation of the nucleotide sequence is incomplete
A/Note: in the authors' translation additional residues Pro-Glu-Ile are shown after 497-
R/Kim, S.J.; Ruiz, N.; Bezouska, K.; Drickamer, K.
Genomics 14, 721-727, 1992
A/Title: Organization of the gene encoding the human macrophage mannose receptor (MRC1).
A/Reference number: A44255; MUID:93052405; PMID:1294118
A/Accession: A44255
A/Status: preliminary; nucleic acid sequence not shown; not compared with conceptual tra
A/Molecule type: DNA
A/Residues: 155-233, 'KSAL', 238-283, 346-428, 492-569, 631-714, 716-719, 783-820, 'N', 822-865, '
A/Note: sequence extracted from NCBI backbone (NCBIP:118415, NCBIP:118421, NCBIP:118428,
C/Genetics
A/Gene: GDB:MRC1
A/Cross-references: GDB:133759; OMIM:153618
A/Map position: 10p13-10p13
C/Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C/Keywords: duplication; lectin; tandem repeat; transmembrane protein
F:1-18/Domain: signal sequence #status predicted <SIG>
F:168-209/Domain: fibronectin type II repeat homology <2F1>
F:223-340/Domain: C-type lectin homology <LCH1>
F:362-486/Domain: C-type lectin homology <LCH2>
F:945-1079/Domain: C-type lectin homology <LCH3>

Query Match 9.2%; Score 183; DB 1; Length 1456;
Best Local Similarity 25.1%; Pred. No. 1.2e-06;
Matches 53; Conservative 38; Mismatches 66; Indels 54; Gaps 8;

Oy 42 YKVIYFHTSRRLLNFEEAKCRDGGQLVSEDEQKLEFENLPSDGDFFIGLR 101

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Db 807 YKDYQYFSEKXETMDNARAFCKRFGDLVLSQSSSEKFLWKVY-NRNDQAQSAFYGLL 865
QY 102 RREERQSNSTACQDIYAWTDGSIQFRNYYWDEPSCGS--EVCVVMYHQPSAPAGIGPY 159
Db 866 ISLDKK-----FAWMDGSKVDYVSWATGEPNFANEDNCVTMY-----SNSGF----- 908
QY 160 MFQWDDRCNMKNPFICKYSDSK-----PAVPSREAGEBETELTTPVLPETQOE----- 208
Db 909 ---WINDINGCYFNALICQHRHNSINATVMP-----TWPSVSGCKEGWNVFSN 954
QY 209 -----EDAKTKPKESREAAALNAYILI 230
Db 955 KCFKIFGFMEERKNQWQEARAKICIGFGGNLV 985

RESULT 2
A48925
manose receptor precursor, macrophage - mouse
C:Species: Mus musculus (house mouse)
C>Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: A48925; S21320; PC2245
R:Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.A.
Blood 80, 2363-2371, 1992
A:Title: Characterization of the murine macrophage manose receptor: demonstration that
A:Reference number: A48925; MUID:93043353; PMID:1421407
A:Accession: A48925
A:Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-1455 <HAR>
A:Experimental source: peritoneal macrophage
A>Note: sequence extracted from NCBI backbone (NCBIP:118733)
R:Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.B.
submitted to the EMBL Data Library, April 1992
A:Description: Characterization of the murine macrophage manose receptor: Demonstration
on.
A:Reference number: S21320
A:Accession: S21320
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-302,'W',303-1117,'E',1119-1455 <HA2>
A:Cross-references: EMBL:Z11974; NID:G52997; PIDN:CAA78028.1; PID:G52998
R:Harris, N.; Peters, L.L.; Eicher, E.M.; Rits, M.; Raspberry, D.; Eichbaum, Q.G.; Super
Biochem. Biophys. Res. Commun. 198, 682-692, 1994
A:Title: The exon-intron structure and chromosomal localization of the mouse macrophage
A:Reference number: PC2245; MUID:94128116; PMID:8297379
A:Accession: PC2245
A:Molecule type: mRNA
A:Residues: 35-105 <HA3>
C:Genetics:
A:Gene: Mrc1
A:Map position: 2
C:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C:Keywords: membrane protein; receptor
F:168-203/Domain: fibronectin type II repeat homology <F9>
F:361-485/Domain: C-type lectin homology <LCH1>
F:943-1077/Domain: C-type lectin homology <LCH2>

Query Match 8.9%; Score 178.5; DB 1; Length 1455;
Best Local Similarity 25.9%; Pred. No. 2.7e-06;
Matches 53; Conservative 33; Mismatches 66; Indels 53; Gaps 8;

QY 42 YKVIYFHTSRLNPFEEAKACRRDGGQGVLSIESEDEQKLEKFIENLLPSDGDGFWIGLR 101
Db 806 YKDYQYFSEKXETMDNARAFCKRFGDLVLSQSSSEKFLWKVY-NKNGQSQSPYFGLM 864
QY 102 RREERQSNSTACQDIYAWTDGSIQFRNYYWDEPSCGS--EVCVVMYHQPSAPAGIGPY 159
Db 865 ISMDKK-----FIWMDGSKVDYVSWATGEPNFANEDNCVTMY-----TNSGF----- 907
QY 160 MFQWDDRCNMKNPFICK--YSDEKPAVPSREAGEBETELTTPVLPETQOE----- 208
Db 908 ---WINDINGCYFNALICQHRHNSINATVMP-----TTTTPGCKEGWHLYKNK 953

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QY 209 -----EDAKTKPKESREAAALNL 225
Db 954 CFKIFGFANEKKSQWQARQACKGL 978

RESULT 3
S52781
neurocan - mouse
C:Species: Mus musculus (house mouse)
C>Date: 19-May-1995 #sequence_revision 21-Jul-1995 #text_change 04-Feb-2000
C:Accession: S52781
R:Rauch, U.; Forsberg, N.; Kulbe, G.; Arnold-Ammer, I.; Faessler, R.
submitted to the EMBL Data Library, February 1995
A:Description: Amino acid sequence of mouse neurocan and brevican and their different ex
A:Reference number: S52781
A:Accession: S52781
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-1268 <RAU>
A:Cross-references: EMBL:X84727; NID:G758629; PIDN:CAA59216.1; PID:G758630
C:Superfamily: agriscan; C-type lectin homology; complement factor H repeat homology; EGI
F:176-253/Domain: link protein repeat homology <LNK1>
F:274-355/Domain: link protein repeat homology <LNK2>
F:964-995/Domain: EGF homology <EGF>
F:1040-1160/Domain: C-type lectin homology <LCH>
F:1167-1223/Domain: complement factor H repeat homology <FHD>

Query Match 8.8%; Score 177; DB 2; Length 1268;
Best Local Similarity 31.5%; Pred. No. 3.1e-06;
Matches 45; Conservative 17; Mismatches 49; Indels 32; Gaps 6;

QY 38 QRPCKYVIFHTSRLNPFEEAKACRRDGGQGVLSIESEDEQKLEKFIENLLPSDGDGFW 97
Db 1048 QGHCVR--YF---AHRRAWEDAECDRCRRAGHLTSVHSPEEHKFINSP-----GHENSW 1096

QY 98 IGLRREKQSNSTACQDIYAWTDGSIQFRNYYWDEFS---CGSEVCVVMYHQPSAPAG 154
Db 1097 IGLNDRTVRD-----FQWTDNTGLQYENWRKQDPNPFAGGDCVVMVAHESG--- 1145

QY 155 IGGPYMFQWDDRCNMKNPFICK 177
Db 1146 -----RWNDVPCVNYLFPYVCK 1161

RESULT 4
T14274
versican precursor, splice form V2 - bovine
C:Species: Bos primigenius taurus (cattle)
C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 05-May-2000
C:Accession: T14274
R:Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
J. Biol. Chem. 273, 15758-15764, 1998
A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A:Reference number: Z17954; MUID:98288320; PMID:9624174
A:Accession: T14274
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1643 <SCH>
A:Cross-references: EMBL:AF050459; NID:G3253303; PID:G3253304; PIDN:AC24360.1
A:Experimental source: brain
C:Keywords: glycoprotein
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-1643/Product: versican, splice form V2 #status predicted <MAT>
F:57,331,352,817,965,1017,1333,1616,1626/Binding site: carbohydrate (Asn) (covalent) #ste

Query Match 8.7%; Score 174.5; DB 2; Length 1643;
Best Local Similarity 25.5%; Pred. No. 6.8e-06;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;

QY 38 QRPCKYVIFHTSRLNPFEEAKACRRDGGQGVLSIESEDEQKLEKFIENLLPSDGDGFW 96
Db 1424 QGQCYK--YF---AHRRTWDAARECRLLQGAHLTSLSHEEQMFVNRV-----GHDVQ 1471

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```
QY 97 WIGLRRREEKOSNSTACQDLYAWTDGSIQFRNMYVDEP-----SCGSEVCVMVYHQSAP 152
|||||
Db 1472 WIGL-----NDKMFHDFRWTDGSTLQYENWRPNQPSFTSTGDCVVIWHENG-- 1521
|||||
QY 153 AGIGPPYFQWDDRCNNKNNFICKYS-----DEKPAVPSREAGE----- 193
|||||
Db 1522 -----QWDDVPCNHYLTCTCKGTGTVACGQPPVVENAKTFGKMPRYEINSLIRYHC 1572
|||||
QY 194 -----ETELTT-----PVL-----PEETOEDAKTKTFKESREAAALN 224
|||||
Db 1573 KDGFIQRHLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSSAKDN 1623
|||||

RESULT 5
T42389
versican precursor, splice form V0 - bovine
N:Alternate names: chondroitin sulfate proteoglycan
C:Species: Bos primigenius taurus (cattle)
C>Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 05-May-2000
C:Accession: T42389
R:Schmalzfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
J. Biol. Chem. 273, 15758-15764, 1998
A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A:Reference number: Z17954; MUID:98288320; PMID:9624174
A:Accession: T42389
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-3381 <SCH>
A:Cross-references: EMBL:AF060456; NID:G3253299; PID:G3253300; PIDN:AAC24358.1
C:Superfamily: chicken chondroitin sulfate proteoglycan PG-M core protein; C-type lectin
C:Keywords: chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-3381/Product: versican, splice form V0 #status predicted <MAT>
F:57,331,352,817,965,1017,1333,1393,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,26
F:57,331,352,817,965,1017,1333,1393,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,26

Query Match 8.7%; Score 174.5; DB 2; Length 3381;
Best Local Similarity 25.5%; Pred. No. 1.7e-05;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;

QY 38 QRPCYKVIYFHTDTRRLNFEAKACRRDGGQLGVIESDEQKLEKFIENLLPSDGF- 96
|||||
Db 3162 QGQCYK--YF---AHRRTWDAERECRLQGAHLTSLSHQEQMFVNRV-----GHDIQ 3209
|||||

QY 97 WIGLRRREEKOSNSTACQDLYAWTDGSIQFRNMYVDEP-----SCGSEVCVMVYHQSAP 152
|||||
Db 3210 WIGL-----NDKMFHDFRWTDGSTLQYENWRPNQPSFTSTGDCVVIWHENG-- 3259
|||||

QY 153 AGIGPPYFQWDDRCNNKNNFICKYS-----DEKPAVPSREAGE----- 193
|||||
Db 3260 -----QWDDVPCNHYLTCTCKGTGTVACGQPPVVENAKTFGKMPRYEINSLIRYHC 3310
|||||

QY 194 -----ETELTT-----PVL-----PEETOEDAKTKTFKESREAAALN 224
|||||
Db 3311 KDGFIQRHLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSSAKDN 3361
|||||

RESULT 6
S28764
neurocan precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 22-Nov-1993 #sequence_revision 01-Sep-1995 #text_change 04-Feb-2000
C:Accession: S28764
R:Rauch, U.; Karthikeyan, L.; Maurel, P.; Margolis, R.U.; Margolis, R.K.
J. Biol. Chem. 267, 19536-19547, 1992
A:Title: Cloning and primary structure of neurocan, a developmentally regulated, aggrega
A:Reference number: S28764; MUID:92406907; PMID:1326557
A:Accession: S28764
A:Molecule type: mRNA
A:Residues: 1-1257 <RAU>
A:Cross-references: EMBL:M97161; NID:G205649; PIDN:AAC37679.1; PID:G205650
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C:Keywords: chondroitin sulfate proteoglycan; glycoprotein
```

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F:1-22/Domain: signal sequence #status predicted <SIG>
F:23-1257/Product: neurocan #status predicted <MAT>
F:176-253/Domain: link protein repeat homology <LNK1>
F:274-355/Domain: link protein repeat homology <LNK2>
F:364-366/Region: cell attachment (R-G-D) motif
F:953-984/Domain: EGF homology <EGF>
F:1029-1149/Domain: C-type lectin homology <LCH>
F:1156-1212/Domain: complement factor H repeat homology <FHD>
F:121,339,737,967,1164/Binding site: carbohydrate (Asn) (covalent) #status predicted
F:372,410/Binding site: chondroitin sulfate (Ser) (covalent) #status predicted
F:944/Binding site: chondroitin sulfate (Ser) (covalent) #status experimental

Query Match 8.7%; Score 174; DB 2; Length 1257;
Best Local Similarity 30.8%; Pred. No. 5.4e-06;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;

QY 38 QRPCYKVIYFHTDTRRLNFEAKACRRDGGQLGVIESDEQKLEKFIENLLPSDGF- 97
|||||
Db 1037 QGQCYR--YF---AHRRAWEDAERDCRRAGHLTSLVHSEEHKFINSF-----GHENSW 1085
|||||

QY 98 IGLRREEKOSNSTACQDLYAWTDGSIQFRNMYVDEP-----CGSEVCVMVYHQSAPAG 154
|||||
Db 1086 IGLNDRTVRD-----FQWTDNTGLQYENWRKQPNFFAGGDCVVMYAHENG--- 1134
|||||

QY 155 IGGPPYFQWDDRCNNKNNFICK 177
|||||
Db 1135 -----RWDDVPCNHYLTCTCKGTGTVACGQPPVVENAKTFGKMPRYEINSLIRYHC 2277
|||||

RESULT 7
A55535
versican precursor - mouse
N:Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
versican
N:Contains: glial hyaluronate-binding protein
C:Species: Mus musculus (house mouse)
C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: A55535
R:Ito, K.; Shinomura, T.; Zako, M.; Ujita, M.; Kimata, K.
J. Biol. Chem. 270, 958-965, 1995
A:Title: Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generate
A:Reference number: A55535; MUID:95122551; PMID:7822336
A:Accession: A55535
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-2397 <RES>
A:Cross-references: GB:D16263; NID:G862460; PIDN:BA03796.1; PID:G862461
C:Superfamily: versican; C-type lectin homology; complement factor H repeat homology; EG
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-1654/Domain: versican #status predicted <MAT>
F:167-244/Domain: link protein repeat homology <LNK1>
F:265-346/Domain: link protein repeat homology <LNK2>
F:2095-2126/Domain: EGF homology <EG1>
F:2133-2164/Domain: EGF homology <EG2>
F:2171-2291/Domain: C-type lectin homology <LCH>
F:2298-2354/Domain: complement factor H repeat homology <FHD>
```

```
Query Match 8.7%; Score 174; DB 1; Length 2397;
Best Local Similarity 28.5%; Pred. No. 1.2e-05;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QRPCYKVIYFHTDTRRLNFEAKACRRDGGQLGVIESDEQKLEKFIENLLPSDGF- 96
|||||
Db 2179 QGQCYK--YF---AHRRTWDAERECRLQGAHLTSLSHQEQMFVNRV-----GHDIQ 2226
|||||

QY 97 WIGLRRREEKOSNSTACQDLYAWTDGSIQFRNMYVDEP-----SCGSEVCVMVYHQSAP 152
|||||
Db 2227 WIGL-----NDKMFHDFRWTDGSTLQYENWRKQPNFFAGGDCVVMYAHENG-- 2276
|||||

QY 153 AGIGPPYFQWDDRCNNKNNFICKYS-----DEKPAVPSREAGE 193
|||||
Db 2277 -----QWDDVPCNHYLTCTCKGTGTVACGQPPVVENAKTFGK 2312
|||||
```

RESULT 8
A60979
N:Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
N:Contains: glial hyaluronate-binding protein
C:Species: Homo sapiens (man)
C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 19-Jan-2001
C:Accession: S06014; S43921; A60979; A30358; A29348; A45131; I54179
R:Zimmermann, D.R.; Ruoslahti, E.
EMBL J. 8, 2975-2981, 1989
A:Title: Multiple domains of the large fibroblast proteoglycan, versican.
A:Reference number: S06014; MUID:90059882; PMID:2583089
A:Accession: S06014
A:Molecule type: mRNA
A:Cross-references: 1-2409 <ZIM>
A:Residues: GB:X15998; NID:937662; PIDN:CAA34128.1; PID:937663
R:Yao, L.Y.; Moody, C.; Schoenherr, E.; Wight, T.N.; Sandell, L.J.
Matrix Biol. 14, 213-225, 1994
A:Title: Identification of the proteoglycan versican in aorta and smooth muscle cells by
A:Reference number: S43921; MUID:95005762; PMID:7921538
A:Accession: S43921
A:Molecule type: mRNA
A:Residues: 208-440;1094-1385;1910-2246 <YAO>
R:Bignami, A.; Lane, W.S.; Andrews, D.; Dahl, D.
Brain Res. Bull. 22, 67-70, 1989
A:Title: Structural similarity of hyaluronate binding proteins in brain and cartilage.
A:Reference number: A60979; MUID:89229983; PMID:2469524
A:Accession: A60979
A:Molecule type: protein
A:Residues: 171-210;289-303 <BIG>
R:Perides, G.; Lane, W.S.; Andrews, D.; Dahl, D.; Bignami, A.
J. Biol. Chem. 264, 5981-5987, 1989
A:Title: Isolation and partial characterization of a glial hyaluronate-binding protein.
A:Reference number: A30358; MUID:89174663; PMID:2466833
A:Accession: A30358
A:Molecule type: protein
A:Residues: 24-50;80-87, 'D', 89-119;128-155;167-218;229-259, 'IR';261-268;277-283, 'G', 285-
R:Krusius, T.; Gehlsen, K.R.; Ruoslahti, E.
J. Biol. Chem. 262, 13120-13125, 1987
A:Title: A fibroblast chondroitin sulfate proteoglycan core protein contains lectin-like
A:Reference number: A29348; MUID:88007514; PMID:2820964
A:Accession: A29348
A:Molecule type: mRNA
A:Residues: 1725, 'V', 1727-2409 <KRJ>
A:Cross-references: GB:J02814
R:Perides, G.; Rahemtulla, F.; Lane, W.S.; Asher, R.A.; Bignami, A.
J. Biol. Chem. 267, 23883-23887, 1992
A:Title: Isolation of a large aggregating proteoglycan from human brain.
A:Reference number: A45131; MUID:93054750; PMID:1429726
A:Contents: brain
A:Accession: A45131
A:Molecule type: protein
A:Residues: 21-22, 'X', 24-37 <PE>
A:Experimental source: brain
A:Note: sequence extracted from NCBI backbone (NCBI:P:118884)
R:Iozzo, R.V.; Naso, M.F.; Cannizzaro, L.A.; Waemuth, J.J.; McPherson, J.D.
Genomics 14, 845-851, 1992
A:Title: Mapping of the versican proteoglycan gene (CSPG2) to the long arm of human chro
A:Reference number: I54179; MUID:93122792; PMID:1478664
A:Accession: I54179
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 251-347 <RES>
A:Cross-references: GB:S52488; NID:9263313; PIDN:AA24878.1; PID:9263314
C:Genetics:
A:Gene: GDB:CSPG2
A:Cross-references: GDB:127873; OMIM:118661
A:Map position: 5q12-5q14
C:Superfamily: versican; C-type lectin homology; complement factor H repeat homology; Bg
F:1-20/Domain: signal sequence #status predicted <Sig>
F:21-2409/Product: proteoglycan 24K core protein #status predicted <MAT>
F:167-244/Domain: link protein repeat homology <LNK1>

F:265-346/Domain: link protein repeat homology <LNK2>
F:559-1654/Domain: chondroitin sulfate attachment #status predicted <GAG>
F:2106-2137/Domain: EGF homology <EG1>
F:2144-2175/Domain: C-type lectin homology <EG2>
F:2182-2302/Domain: C-type lectin homology <LCH>
F:2309-2365/Domain: complement factor H repeat homology <FHD>
Query Match 8.7%; Score 174; DB 1; Length 2409;
Best Local Similarity 28.5%; Pred. No. 1.2e-05;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY 38 QRPCYKVIYFHDTSRLNFEAEKACRRDGGOLVSIESDEQKLEKFIENLLPSDGF- 96
Db 2190 QGOCYK--YF---AHRRTWDAERECRLQGAHLTSLSHSEEQFVNRV-----GHDIQ 2237
QY 97 WIGLRREEKQNSACQDLAYWTGDSISQFRNWTYDEP-----SCGSEVCVVMYHQPSAP 152
Db 2238 WIGL-----NDKMFEDHFWTDGSTLQYENWRPNQDPSFFSAGEDCVVIWHENG-- 2287
QY 153 AGIGGPFYMFQWDDRCNKNPFICKYS-----DEKPAVPSRAEGE 193
Db 2288 -----QWMDVPCNHYLTCTCKGTACGQPPVVENAKTFGK 2323
RESULT 9
A47171
Chondroitin sulfate proteoglycan PG-M core protein - chicken
C:Species: Gallus gallus (Chicken)
C>Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 21-Jul-2000
C:Accession: A47171
R:Shinomura, T.; Nishida, Y.; Ito, K.; Kimata, K.
J. Biol. Chem. 268, 14461-14469, 1993
A:Title: cDNA cloning of PG-M, a large chondroitin sulfate proteoglycan expressed during
A:Reference number: A47171; MUID:93300846; PMID:8314802
A:Accession: A47171
A:Status: preliminary
A:Molecule type: nucleic acid
A:Residues: 1-3562 <SHI>
A:Cross-references: GB:D13542; NID:931643; PIDN:BA02742.1; PID:9391644
A:Experimental source: stage 22-23 developing limb buds
A:Note: sequence extracted from NCBI backbone (NCBI:P:134456, NCBI:P:134457)
C:Superfamily: chicken chondroitin sulfate proteoglycan PG-M core protein; C-type lectin
F:166-243/Domain: link protein repeat homology <LNK1>
F:264-345/Domain: link protein repeat homology <LNK2>
F:3258-3289/Domain: EGF homology <EGF1>
F:3296-3327/Domain: EGF homology <EGF>
F:3334-3454/Domain: C-type lectin homology <LCH>
F:3461-3517/Domain: complement factor H repeat homology <FHD>
Query Match 8.6%; Score 171; DB 2; Length 3562;
Best Local Similarity 28.5%; Pred. No. 3.5e-05;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY 38 QRPCYKVIYFHDTSRLNFEAEKACRRDGGOLVSIESDEQKLEKFIENLLPSDGF- 96
Db 3342 QGOCYK--YF---AHRRTWDAERECRLQGAHLTSLSHSEEQFVNRV-----GHDIQ 3389
QY 97 WIGLRREEKQNSACQDLAYWTGDSISQFRNWTYDEP-----SCGSEVCVVMYHQPSAP 152
Db 3390 WIGL-----NDKMFEDHFWTDGSTLQYENWRPNQDPSFFSAGEDCVVIWHENG-- 3439
QY 153 AGIGGPFYMFQWDDRCNKNPFICKYS-----DEKPAVPSRAEGE 193
Db 3440 -----QWMDVPCNHYLTCTCKGTACGQPPVVENAKTFGK 3475
RESULT 10
T42710
mannose receptor, macrophage - mouse
N:Alternate names: lambda lectin; phospholipase A2 receptor
C:Species: Mus musculus (house mouse)
C>Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jun-2000

Query March	7.9%;	Score 158.5;	DB 2;	Length 1340;
Best Local Similarity	26.8%;	Pred. No. 0.00011;		
Matches	48;	Conservative 29;	Mismatches 59;	Indels 43; Gaps 10;
Qy	30	QPVCRRGG---TQRPCYKVIYFHDTSRRLNFBEAKACRRDGGQVLGVIESDEQKLEIKFI	86	
Db	1127	QKLCIEGWTKFGCHYR--HFPPD---RATVDAESOCRQQSLSLIVTEEQ-----EFV	1177	
Qy	87	ENLLPDSGDGF-WIGLRREREEKSNSTACODLYAWTDGSIQSFRNNYVDEP-----SCGSEV	141	
Db	1178	NN---NAQDYQWIGL-----NDKTIETGDFRWSDGHSLSQFNWRPNQPDNFATGEDC	1236	
Qy	142	CVVMYHQPSAPAGIGGPFYMFQWDRCNMKNNFICYIS-----DEKPAVPSRRAEGETE	196	
Db	1227	VVMTWHEKG-----ENNVDPCNVOLFPTCKKGTGTVACGEPVPVHEARIFGOKD	1274	

RESULT 13
A3086
aggrecan precursor, cartilage long splice form [validated] - human
N:Alternate names: chondroitin sulfate proteoglycan 1; large aggregating proteoglycan; p
N:Contains: aggrecan cartilage short splice form
C:Species: Homo sapiens (man)
C:Date: 10-Sep-1999 #sequence revision 01-Dec-2000 #text change 08-Dec-2000

A; Cross-references: GB:J05062; NID:gl81167; PIDN:AAA35726.1; PID:gl81168
C; Genetics:
A; Gene: GDB:AGC1; CSPG1; CSPGCP; MSK16
A; Cross-references: GDB:127479; OMIM:155760
A; Rap position: 15026-15026
C; Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF
C; Keywords: alternative splicing; cartilage; chondroitin sulfate proteoglycan; extracell
F; 1-19/Domain: signal sequence #status predicted <SIG>
F; 20-2415/Product: aggrecan cartilage long splice form #status predicted <MAT>
F; 20-2162,2201-2415/Product: aggrecan cartilage short splice form #status predicted <MAT>
F; 40-2162,2201-2329,'A',2392-2415/Product: aggrecan short splice form #status predicted <
F; 44-135/Domain: immunoglobulin homology <IM>
F; 170-247/Domain: link protein repeat homology <LNK1>
F; 368-349/Domain: link protein repeat homology <LNK2>
F; 495-572/Domain: link protein repeat homology <LNK3>
F; 593-673/Domain: link protein repeat homology <LNK4>
F; 677-861/Domain: keratan sulfate attachment #status predicted <KSA>
F; 864-1510/Domain: chondroitin sulfate attachment #status predicted <CSI>
F; 1511-2162/Domain: chondroitin sulfate attachment #status predicted <CS2>
F; 2168-2198/Domain: EGF homology <EGF>
F; 2205-2325/Domain: C-type lectin homology <LCH>
F; 2332-2388/Domain: complement factor H repeat homology <FHD>
F; 1426,239,333,387,434,602,657,737,1898/Binding site: carbohydrate (Asn) (covalent) #stat
F; 371,376/Binding site: keratan sulfate (Thr) (covalent) #status predicted

Query Match 7.9%; Score 158.5; DB 1; Length 2415;
Best Local Similarity 29.1%; Pred. No. 0.00023;
Matches 52; Conservative 22; Mismatches 62; Indels 43; Gaps 11;

QY 30 QPVCRGG---TORPCYKVIYFHTSRRLNFBFAKEACRRDGGQLVSISEDEQKLEKFI 86
Db 2202 QEVCEGWNKYGHCVR--HFPD---RETWDAERRCREQCSHLSSIVTPEQ----EFV 2252
QY 87 ENLLPSDGF-WIGLRBREKQSNSTACQDLYANTDGSISQFRNYYVDEPS---CGSEVC 142
Db 2253 NN---NAQDYQWIGL-----NDRITIEGFRSDGHPMQFENWRPNQPNFPAAGDC 2301
QY 143 VVM-YHQSAPAGIGPYFMQNDNRCKNKNFICKYS----DEKPAVPSREASGEETE 196
Db 2302 VVMWHERG-----ENWDVPCNHLPTCKGTACGEPVVEHARTFGKKD 2349

RESULT 14
LNCR1
lectin BRA3-1 precursor - barnacle (Megabalanus rosa)
C; Species: Megabalanus rosa
C; Date: 24-Feb-1994 #sequence_revision 09-Sep-1994 #text_change 16-Jul-1999
C; Accession: JCI503; A26094
R; Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T.
Gene 128, 251-255, 1993
A; Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and
A; Reference number: JCI503; MUID:93292994; PMID:8514190
A; Accession: JCI503
A; Molecule type: DNA: mRNA
A; Residues: 1-162 <TAK>
A; Cross-references: DDBJ:D13299
R; Muramoto, K.; Kamiya, H.
Biochim. Biophys. Acta 874, 285-295, 1986
A; Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.
A; Reference number: A26094
A; Accession: A26094
A; Molecule type: Protein
A; Residues: 25-145, K,147-162 <MUR>
A; Note: 146-Arg was also found
C; Comment: This galactose-binding lectin is isolated from the coelomic fluid.
C; Comment: This protein plays important roles in defense mechanisms and in development ar
C; Comment: The molecule is a tetramer of identical chains.
C; Genetics:
A; Introns: 22/1; 47/2; 86/3
C; Superfamily: tetranectin; C-type lectin homology
C; Keywords: hemolymph; homotetramer; lectin
F; 1-24/Domain: signal sequence #status predicted <SIG>
F; 25-162/Product: lectin BRA3-1 #status experimental <MAT>

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:18:15 ; Search time 12 Seconds
(without alignments)
1622.853 Million cell updates/sec

Title: US-09-887-855-2

Perfect score: 2000
Sequence: 1 MRPTALQAVLLAVLVGLR.....PDQGRSGSGWENEIYGY 374

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	657	32.9	273	1 CHOD MOUSE	Q9cxm0 mus musculus
2	645	32.2	273	1 CHOD HUMAN	Q9h3p2 homo sapien
3	183	9.2	1456	1 MANR HUMAN	P22897 homo sapien
4	177	8.8	1268	1 PGCN MOUSE	P55066 mus musculus
5	176	8.8	1321	1 PGCN HUMAN	O14594 homo sapien
6	174.5	8.7	3381	1 PGCN BOVIN	P81282 bos taurus
7	174	8.7	1257	1 PGCN RAT	P55067 rattus norv
8	174	8.7	2738	1 PGCN RAT	Q9erb4 rattus norv
9	174	8.7	3358	1 PGCN MOUSE	Q62059 mus musculus
10	174	8.7	3396	1 PGCN HUMAN	P13611 homo sapien
11	172.5	8.6	643	1 CD93 RAT	Q9et61 rattus norv
12	171	8.6	3562	1 PGCN CHICK	Q90953 gallus gall
13	158.5	7.9	2364	1 PGCN BOVIN	P13608 bos taurus
14	158.5	7.9	2415	1 PGCN HUMAN	P13112 homo sapien
15	157.5	7.9	652	1 CD93 HUMAN	Q9hpy3 homo sapien
16	155.5	7.8	2333	1 PGCN CANFA	Q28343 canis famli
17	154.5	7.7	612	1 LEM2 MOUSE	Q00690 mus musculus
18	154.5	7.7	644	1 CD93 MOUSE	O89103 mus musculus
19	153.5	7.7	158	1 LECG TRIST	Q9ygp1 trimeresuru
20	153.5	7.7	2124	1 PGCN RAT	P07897 rattus norv
21	153	7.6	162	1 LECB MEGRO	P07439 megabalanus
22	152	7.6	912	1 PGCN BOVIN	Q28062 bos taurus
23	151	7.5	197	1 CLB1 HUMAN	O75596 homo sapien
24	149	7.4	321	1 FC32 HUMAN	P06734 homo sapien
25	148.5	7.4	152	1 IXA TRIFL	P23806 trimeresuru
26	148.5	7.4	232	1 PGCN MOUSE	Q61282 mus musculus
27	147	7.3	883	1 PGCN CHICK	P07898 gallus gall
28	146	7.3	2109	1 PGCN CHICK	P55068 rattus norv
29	145	7.2	883	1 PGCN RAT	P17346 megabalanus
30	144.5	7.2	173	1 LEC2 MEGRO	P30836 rattus norv
31	144.5	7.2	372	1 LEM1 RAT	P18337 mus musculus
32	143.5	7.2	372	1 LEM1 MOUSE	P98105 rattus norv
33	143	7.1	549	1 LEM2 RAT	

ALIGNMENTS

RESULT 1

ID	CHOD_MOUSE	STANDARD	PRT	273 AA
AC	Q9CXMO; Q8VI31			
DT	28-FEB-2003 (Rel. 41, Created)			
DT	28-FEB-2003 (Rel. 41, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Chondrolectin precursor (Transmembrane protein MT75).			
GN	CHODL			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OX	NCBI_TaxID=10090;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=C57BL/6J			
RA	Weng L., Smits P., Hubner R., Wouters J., Merregaert J.,			
RT	"Mc75, a low expressed c-type lectin gene involving in			
RT	chondrogenesis."			
RL	Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=C57BL/6J; TISSUE=Embryonic head;			
RA	Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,			
RA	Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,			
RA	Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,			
RA	Saito T., Okazaki Y., Gotohori T., Bono H., Kasukawa T., Saito R.,			
RA	Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,			
RA	Fleischmann W., Gaasterland T., Giasi C., King B., Kochiwa H.,			
RA	Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,			
RA	Schrim L.M., Staudli F., Suzuki R., Tomita X., Wagner L., Washio T.,			
RA	Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,			
RA	Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,			
RA	Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,			
RA	Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,			
RA	Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,			
RA	Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,			
RA	Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,			
RA	Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,			
RA	Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohetsuki S.,			
RA	Hayashizaki Y.;			
RT	"Functional annotation of a full-length mouse cDNA collection."			
RL	Nature 409:685-690(2001).			
CC	- - SUBCELLULAR LOCATION: Type I membrane protein (Potential).			
CC	- - SIMILARITY: Contains 1 C-type lectin family domain.			
CC	-----			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
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CC	-----			
DR	EMBL; AF311699; AAL50354.1; -.			

DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR000562; FN_Type_II.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000772; Ricin_B_lectin.
 DR InterPro; IPR008997; RicinE_like.
 DR Pfam; PF00040; fn2; 1.
 DR Pfam; PF00059; Lectin_C; 8.
 DR Pfam; PF00652; Ricin_B_lectin; 2.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR PRINTS; PR00013; FNYYPEII.
 DR ProDom; PD000995; FN_Type_II; 1.
 DR SMART; SM00034; CLECT; 8.
 DR SMART; SM00059; FN2; 1.
 DR SMART; SM00458; RICIN; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN 1; 6.
 DR PROSITE; PS00041; C-TYPE LECTIN 2; 8.
 DR PROSITE; PS00023; FIBONECTIN 2; 1.
 DR PROSITE; PS00231; RICIN_B_LECTIN; 1.
 DR Receptor; Signal; Calcium-binding; Transmembrane; Repeat;
 KW Glycoprotein; Endocytosis; Macrophage; Lectin; Antigen; 3D-structure.
 FT SIGNAL 1 18 POTENTIAL.
 FT CHAIN 19 1456
 FT DOMAIN 19 1383
 FT TRANSMEM 1384 1411
 FT DOMAIN 1412 1456
 FT DOMAIN 22 142
 FT DOMAIN 157 212
 FT DOMAIN 216 344
 FT DOMAIN 360 490
 FT DOMAIN 502 629
 FT DOMAIN 644 781
 FT DOMAIN 805 926
 FT DOMAIN 943 1083
 FT DOMAIN 1100 1216
 FT DOMAIN 1228 1359
 FT DISULFID 646 659
 FT DISULFID 680 777
 FT DISULFID 753 769
 FT CARBOHYD 104 104
 FT CARBOHYD 344 344
 FT CARBOHYD 529 529
 FT CARBOHYD 926 926
 FT CARBOHYD 930 930
 FT CARBOHYD 1160 1160
 FT CARBOHYD 1205 1205
 FT CARBOHYD 1311 1311
 FT TURN 648 649
 FT STRAND 651 652
 FT TURN 654 655
 FT STRAND 658 663
 FT HELIX 669 669
 FT STRAND 671 671
 FT TURN 673 683
 FT TURN 684 684
 FT STRAND 686 687
 FT HELIX 693 705
 FT TURN 706 707
 FT TURN 709 710
 FT STRAND 712 718
 FT TURN 723 724
 FT STRAND 727 727
 FT TURN 729 730
 FT STRAND 733 733
 FT TURN 741 742
 FT HELIX 746 746
 FT STRAND 752 757
 FT TURN 758 761
 FT STRAND 764 768
 FT TURN 769 770
 FT STRAND 773 780
 FT TURN 781 782
 SQ SEQUENCE 1456 AA; 166011 MW; 264E5AP3C576A5E3 CRC64;

Query Match 9.2%; Score 183; DB 1; Length 1456;
 Best Local Similarity 25.1%; Pred. No. 4.2e-07;
 Matches 53; Conservative 38; Mismatches 66; Indels 54; Gaps 8;
 QY 42 YKVIYEDTSRLNFEBAKCRDGGQLYSISEDFQKLEKFIENLLPSDGDGFWIGLR 101
 Db 807 YDYQYIFSEKETMDNARAFCKRFGDLVSIQSESEKFLWKYV-NRNDQAQSAFYIGLL 865
 QY 102 RREKQSNSTACQDLYAWTDGSGISQFRNYYVDVBPSCGS--EVCVVMYHQPSPAGIGGPY 159
 Db 866 ISLDKX-----PAWMDGSKVDYVSWATGFENFANEDENCVTWY-----SNSGF----- 908
 QY 160 MFQWDDRCNWKNNFICKYSDEK-----PAVPSRAEAGEETELTPVLPETQE----- 208
 Db 909 ---WNDINCGYNAFICQHNSSINATVMP-----TPSPVPSGCKEGWNFYSN 954
 QY 209 -----EDAKTKFKESREAAALNAYILI 230
 Db 955 KCPKIFGFMEERKQWQEARAKACIGFGGNLV 985

RESULT 4
 PGCN MOUSE
 ID PGCN MOUSE STANDARD; PRT; 1268 AA.
 AC P55066;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3).
 GN CSFG3 OR NCAN.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OX Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Brain;
 RX MEDLINE=96039250; PubMed=7490074;
 RA Rauch U., Grimpe B., Kulbe G., Arnold-Ammer I., Beier D.,
 RA Raessler R.;
 RL "Structure and chromosomal localization of the mouse neurocan gene.";
 CC Genomics 28:403-410(1995).
 CC -!- FUNCTION: May modulate neuronal adhesion and neurite growth during
 CC development by binding to neural cell adhesion molecules (NG-CAM
 CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
 CC acid.
 CC -!- TISSUE SPECIFICITY: Brain.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -----
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 CC -----
 CC EMBL; X84727; CAA59216.1; .
 CC FIR; S52781; S52781.
 CC HSP; P00740; 1EDM.
 CC MGD; MGI:104694; Cspg3.
 CC InterPro; IPR002353; AntifreezeII.
 CC InterPro; IPR000152; Asx_hydroxyl_S.
 CC InterPro; IPR000742; EGF_2.
 CC InterPro; IPR001881; EGF_Ca.
 CC InterPro; IPR006209; EGF-like.
 CC InterPro; IPR007110; Ig-like.
 CC InterPro; IPR003599; Ig.

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DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; Ig; 1.
DR Pfam; PF00059; Lectin_C; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLEET; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 3.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
DR GlycoProtex; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal.
FT SIGNAL 1 22
FT CHAIN 23 1268
FT DOMAIN 37 157
FT DOMAIN 158 253
FT DOMAIN 259 355
FT DOMAIN 960 996
FT DOMAIN 998 1034
FT DOMAIN 1036 1265
FT DOMAIN 1166 1224
FT DISULFID 58 139
FT DISULFID 181 252
FT DISULFID 205 226
FT DISULFID 279 354
FT DISULFID 303 324
FT DISULFID 964 975
FT DISULFID 969 984
FT DISULFID 986 995
FT DISULFID 1040 1051
FT DISULFID 1068 1160
FT DISULFID 1136 1152
FT DISULFID 1157 1210
FT DISULFID 1196 1223
FT CARBOHYD 121 121
FT CARBOHYD 339 339
FT CARBOHYD 742 742
FT CARBOHYD 978 978
FT CARBOHYD 1175 1175
FT SEQUENCE 1268 AA; 137200 MW; 301458E202A2FAEC CRC64;
Query Match 8.8%; Score 177; DB 1; Length 1268;
Best Local Similarity 31.5%; Pred. No. 1.1e-06;
Matches 45; Conservative 17; Mismatches 49; Indels 32; Gaps 6;
QY 38 QPQCVIYFHDTSRLNFEAKEACRRDGGVLSIESDEQKLEKFTENLLPSDGF 97
1048 QHCYR--YF--AHRWEDERDCRRAGHLTSVHSPEEHKFINSF-----GHENSW 1096
QY 98 IGLRREBKQSNSTACQDIYAMTDGSIQFRNYYVDEPS---CGSEVCVVYHQPSAPAG 154
Db 1097 IGLNDRTVDER-----FQMTDNTGLQYENWRKQPDNFFAGGEDCVVMVAHESG--- 1145
QY 155 IGGPYNMFQNDDECNKNWPFCK 177
Db 1146 -----RNDVPCNTNLPYVCK 1161

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RESULT 5
PGCN HUMAN STANDARD; PRT; 1321 AA.
AC Q14594; Q9UPK6;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3).
GN CSPG3 OR NCAN OR NEUR.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99013874; PubMed=9795216;
RA Prange C.K., Pennacchio L.A., Lieuallen K., Fan W., Lennon G.G.;
RT "Characterization of the human neurocan gene, CSPG3.";
RL Gene 221:199-205(1998).
RN [2]
RP SEQUENCE OF 1-990 AND 1007-1321 FROM N.A., AND VARIANT ALA-1254.
RA Lamerdin J.E., McCreedy P.M., Skowronski E., Adamson A.W.,
RA Burkhardt-Schultz K., Gordon L., Kyle A., Ramirez M., Stillwagen S.,
RA Phan H., Velasco N., Do L., Regala W., Terry A., Garnes J.,
RA Danganan L., Poundstone P., Christensen M., Georgescu A., Avila J.,
RA Liu S., Attix C., Andreise T., Frankheim M., Amico-Keller G.G.,
RA Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,
RA Kronmiller B., Arellano A., Montgomery M., Ow D., Nolan M., Trong S.,
RA Kobayashi A., Olsen A.S., Carrano A.V.;
RA "Sequence analysis of an ~1 Mb region containing the MEF2B gene in
  19p12.";
RT Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
RL Development: May modulate neuronal adhesion and neurite growth during
  development by binding to neural cell adhesion molecules (NG-CAM
  and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
  acid.
CC -!- TISSUE SPECIFICITY: Brain.
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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EMBL; AF026547; AAC80576.1; -.
EMBL; AC003110; AAB86655.1; -.
EMBL; AC005254; AAC25581.1; -.
HSSP; P00740; 1EDM.
Genew; HGNC:2465; CSPG3.
MIM; 600826; -.
InterPro; IPR001052; Asx_hydroxyl_S.
InterPro; IPR000742; EGF_2.
InterPro; IPR001881; EGF_Ca.
InterPro; IPR006209; EGF_Like.
InterPro; IPR007110; IG-Like.
InterPro; IPR003599; IG.
InterPro; IPR001304; Lectin_C.
InterPro; IPR000538; Link.
InterPro; IPR000436; Sushi_SCR_CCP.
Pfam; PF00008; EGF; 2.
Pfam; PF00047; Ig; 1.
Pfam; PF00059; lectin_C; 1.
Pfam; PF00084; sushi; 1.
Pfam; PF00193; Xlink; 2.
PRINTS; PR01265; LINKMODULE.

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DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 3.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS01185; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
DR Glycoprotein; Hyaluronic acid; proteoglycan; Immunoglobulin domain;
KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal; Polymorphism.
FT SIGNAL 1 22
FT CHAIN 23 1321
FT DOMAIN 38 153
FT DOMAIN 159 254
FT DOMAIN 260 356
FT DOMAIN 1008 1044
FT DOMAIN 1046 1082
FT DOMAIN 1084 1213
FT DOMAIN 1214 1272
FT DISULFID 59 140
FT DISULFID 182 253
FT DISULFID 206 227
FT DISULFID 280 355
FT DISULFID 304 325
FT DISULFID 1012 1023
FT DISULFID 1017 1032
FT DISULFID 1034 1043
FT DISULFID 1089 1099
FT DISULFID 1116 1208
FT DISULFID 1184 1200
FT DISULFID 1215 1258
FT DISULFID 1244 1271
FT CARBOHYD 122 122
FT CARBOHYD 340 340
FT CARBOHYD 1026 1026
FT CARBOHYD 1223 1223
FT VARIANT 1254 1254
FT CONFLICT 1234 1234
FT CONFLICT 1282 1282
FT SEQUENCE 1321 AA; 142972 MW; 2EF47F623DB980B8 CRC64;

Query Match 8.8%; Score 176; DB 1; Length 1321;
Best Local Similarity 31.5%; Pred. No. 1.4e-06;
Matches 45; Conservative 18; Mismatches 48; Indels 32; Gaps 5;

QY 38 QPCKVIVYFHTSRLEAFERAKACRRDGGOLVSESDCKLIEKFIENLLPSDGF 97
DB 1096 QGHCYR--YF---AHRRAWDEAKDCRRSGHLTSVHSPFHSINSF-----GHENTW 1144

QY 98 IGLRREKQSNSTACQDLAYMTDGSISQFRNRYVDEPS---CGSEVCVMYHQPSAPAG 154
DB 1145 IGLNDRIVERD-----PQWTDNTGLQFENWRENQDNFFAGDCVVMVAHESG--- 1193

QY 155 IGGPYNFWNDRCNNKNFCK 177
DB 1194 -----RWNDVFCYNLPYVCK 1209

RESULT 6
PCV_BOVIN
ID PCV_BOVIN STANDARD; PRT: 3381 AA.
AC P81282; O77609; O77610; O77611; O77612;
DT 15-DEC-1998 (Rel. 37, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)

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Versican core protein precursor (Large fibroblast proteoglycan) (Chondroitin sulfate proteoglycan core protein 2) (PG-M) [Glia] hyaluronate-binding protein) (GHAP).
 Bos taurus (Bovine).
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bovinae; Bos.
 NCBI_TaxID=9913;
 [1]
 SEQUENCE FROM N.A. (ISOFORMS VO; VI; V2 AND V3).
 TISSUE=Forebrain;
 MEDLINE=98288320; PubMed=9624174;
 RA Schmalfeldt M., Dours-Zimmermann M.T., Winterhalter K.H., Zimmermann D.R.;
 "Versican V2 is a major extracellular matrix component of the mature bovine brain."
 J. Biol. Chem. 273:15758-15764(1998).
 [2]
 SEQUENCE OF 21-53; 78-96; 226-250; 262-277; 295-306; 314-324; 329-331 AND 342-348.
 TISSUE=Spinal cord;
 MEDLINE=92062692; PubMed=1720020;
 RA Perides G., Biviano F., Bignami A.;
 "Interaction of a brain extracellular matrix protein with hyaluronic acid."
 Biochim. Biophys. Acta 1075:248-258(1991).
 CC -!- FUNCTION: May play a role in intercellular signaling and in connecting cells with the extracellular matrix. May take part in the regulation of cell motility, growth and differentiation. Binds hyaluronic acid.
 CC -!- SUBUNIT: Interacts with PBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 Event-Alternative splicing; Named isoforms=4;
 Comment=Additional isoforms seem to exist;
 Names=V0;
 IsoId=P81282-1; Sequence=Displayed;
 Names=V1;
 IsoId=P81282-2; Sequence=VSP_003078, VSP_003079;
 Names=V2;
 IsoId=P81282-3; Sequence=VSP_003080;
 Names=V3;
 IsoId=P81282-4; Sequence=VSP_003081;
 CC -!- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 are expressed in the central nervous system, and in a number of mesenchymal and epithelial tissues; the major isoform V2 is restricted to the central nervous system.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development (By similarity).
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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 EMBL; AF060456; AAC24358.1; --
 EMBL; AF060457; AAC24359.1; --
 EMBL; AF060458; AAC24360.1; --
 EMBL; AF060459; AAC24361.1; --
 PIR; T14274; T14274.
 PIR; T42389; T42389.
 HSSP; P01132; 1EPG.
 InterPro; IPR000152; Asx_hydroxyl_S.

InterPro; IPR000742; EGF 2.	FT	CARBOHYD	2074	2074	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR001981; EGF Ca.	FT	CARBOHYD	2103	2103	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR006209; EGF-like.	FT	CARBOHYD	2263	2263	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR007110; Ig-like.	FT	CARBOHYD	2290	2290	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR003599; Ig.	FT	CARBOHYD	2356	2356	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR003304; Lectin C.	FT	CARBOHYD	2623	2623	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR000538; Link.	FT	CARBOHYD	2641	2641	N-LINKED (GLCNAC. . .) (POTENTIAL).
InterPro; IPR000436; Sushi_SCR_CCP.	FT	CARBOHYD	2919	2919	N-LINKED (GLCNAC. . .) (POTENTIAL).
Pfam; PF00008; EGF, 2.	FT	CARBOHYD	3052	3052	N-LINKED (GLCNAC. . .) (POTENTIAL).
Pfam; PF00059; Lectin_c; 1.	FT	CARBOHYD	3354	3354	N-LINKED (GLCNAC. . .) (POTENTIAL).
Pfam; PF00084; sushi; 1.	FT	CARBOHYD	3364	3364	N-LINKED (GLCNAC. . .) (POTENTIAL).
Pfam; PF00193; Xlink; 2.	FT	CARBOHYD	349	349	N-LINKED (GLCNAC. . .) (POTENTIAL).
PRINTS; PR01265; LINKMODULE.	FT	VARSPLIC	350	1336	Missing (in isoform V1).
ProDom; PD000918; Link; 2.	FT	VARSPLIC	1337	3074	Missing (in isoform V2).
SMART; SM00032; CCP; 1.	FT	VARSPLIC	350	3074	Missing (in isoform V3).
SMART; SM00034; CLECT; 1.	FT	VARSPLIC	350	3074	Missing (in isoform V3).
SMART; SM00179; EGF_CA; 1.	FT	VARSPLIC	350	3074	Missing (in isoform V3).
SMART; SM00409; IG-1.	FT	VARSPLIC	350	1336	Missing (in isoform V1).
SMART; SM00445; LINK; 2.	FT	VARSPLIC	350	1336	Missing (in isoform V1).
PROSITE; PS00010; ASX_HYDROXYL; 1.	FT	CONFLICT	25	25	MISSING (IN REF. 2).
PROSITE; PS00615; C-TYPE_LECTIN_1; 1.	FT	CONFLICT	51	51	MISSING (IN REF. 2).
PROSITE; PS00041; C-TYPE_LECTIN_2; 1.	FT	CONFLICT	89	89	N -> D (IN REF. 2).
PROSITE; PS00022; EGF_1; 2.	FT	CONFLICT	96	96	Q -> D (IN REF. 2).
PROSITE; PS01186; EGF_2; 1.	FT	CONFLICT	346	346	C -> R (IN REF. 2).
PROSITE; PS00026; EGF_3; 2.	FT	CONFLICT	346	346	C -> R (IN REF. 2).
PROSITE; PS01187; EGF_CA; 1.	FT	CONFLICT	346	346	C -> R (IN REF. 2).
PROSITE; PS00835; IG-Like; 1.	FT	CONFLICT	346	346	C -> R (IN REF. 2).
PROSITE; PS01241; LINK; 2.	FT	CONFLICT	346	346	C -> R (IN REF. 2).
Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi; Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain; Hya	QY	38	QRCYKVIYPHDTSRLNPFEEAKCRDGGQLVSTESDEKLEKFTENLLPSDGF-	96	
uronic acid; Alternative splicing.	DB	3162	QGQCYK--YF---AHRRTDAAEECRQLQAHLSILSHEEQVFNVRV-----GHYQ	3209	
SIGNAL	QY	97	WIGLRREEKQNSTACODIYAMTDSISQFRWYVDEP-----SCGSEVCVMYHPSAP	152	
CHAIN	DB	3210	WIGL-----NDKQFEHDFRWIDGSTLOYENWRNQDPSFSTGDCVLIWHENG---	3259	
DOMAIN	QY	153	AGIGGPFYFQNDRCNMKNFICKYS-----DKPAVPSREAGE-----	193	
DOMAIN	DB	3260	-----QWNDVPCNHLTYCKGTACGQPPVVENAKFTGKMKPRYENSLIRYHC	3310	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	
DOMAIN	QY	194	-----ETELT-----PVL-----PEETCEDAKTKFKESRAALN	224	
DOMAIN	DB	3311	KDGFIOHRLPIRCLNGRWAMPKRTCLNPSAYQRTYKPKYFNSSAKDN	3361	

RA Friedlander D.R., Milev P., Karthikeyan L., Margolis R.K.,
 RA Margolis R.U., Grumet M.;
 RT "The neuronal chondroitin sulfate proteoglycan neurocan binds to the
 RT neural cell adhesion molecules Ng-CAM/11/NIIE and N-CAM, and inhibits
 RT neuronal adhesion and neurite outgrowth.";
 RL J. Cell Biol. 125:669-680(1994).
 CC -1- FUNCTION: May modulate neuronal adhesion and neurite growth during
 CC development by binding to neural cell adhesion molecules (NG-CAM
 CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
 CC acid.
 CC -1- TISSUE SPECIFICITY: Early postnatal and adult brain; not expressed
 CC in kidney, lung, liver and muscle.
 CC -1- PTM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND
 CC O-LINKED OLIGOSACCHARIDES (BY SIMILARITY).
 CC -1- PTM: TWO ISOFORMS WERE FOUND THAT PROBABLY ARISE BY PROTEOLYTIC
 CC DEGRADATION. THE LARGE ISOFORM IS PREDOMINANT IN EARLY POSTNATAL
 CC BRAIN, THE SMALL ISOFORM IS FOUND IN ADULT BRAIN.
 CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -1- SIMILARITY: Contains 2 EGF-like domains.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -1- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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 CC -----
 DR EMBL; M97161; AAC37679.1; -.
 DR PIR; S28764; S28764.
 DR HSSP; P00740; LEDM.
 DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR000152; Asx_hydroxyl_S.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR0006209; EGF-like.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003599; Ig.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 2.
 DR Pfam; PF00047; Ig; 1.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 1.
 DR Pfam; PF00193; Xlink_2.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR PRINTS; PR01265; LINKMODULE.
 DR ProDom; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00409; IG_1.
 DR SMART; SM00409; IG_2.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX_HYDROXYL; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 3.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF_3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS01835; IG_LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
 KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal.
 FT SIGNAL 1 22
 FT CHAIN 23 1257 NEUROCAN CORE PROTEIN.
 FT CHAIN 639 1257 150 kDa ADULT CORE GLYCOPROTEIN.
 FT DOMAIN 37 157 IG-LIKE V-TYPE.

FT DOMAIN 158 253 LINK 1.
 FT DOMAIN 259 355 LINK 2.
 FT DOMAIN 949 985 EGF-LIKE 1.
 FT DOMAIN 987 1023 EGF-LIKE 2, CALCIUM-BINDING (POTENTIAL).
 FT DOMAIN 1025 1154 C-TYPE LECTIN.
 FT DOMAIN 1155 1213 SUSHI.
 FT DISULFID 58 139 BY SIMILARITY.
 FT DISULFID 181 252 BY SIMILARITY.
 FT DISULFID 205 226 BY SIMILARITY.
 FT DISULFID 279 354 BY SIMILARITY.
 FT DISULFID 303 324 BY SIMILARITY.
 FT DISULFID 953 964 BY SIMILARITY.
 FT DISULFID 975 973 BY SIMILARITY.
 FT DISULFID 978 984 BY SIMILARITY.
 FT DISULFID 1029 1040 BY SIMILARITY.
 FT DISULFID 1057 1149 BY SIMILARITY.
 FT DISULFID 1125 1141 BY SIMILARITY.
 FT DISULFID 1156 1199 BY SIMILARITY.
 FT DISULFID 1185 1212 BY SIMILARITY.
 FT CARBOHYD 121 121 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 339 339 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 737 737 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 944 944 O-LINKED (XYL. . .) (POTENTIAL).
 FT CARBOHYD 967 967 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1164 1164 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 1257 AA; 135544 MW; 992B33DCFA19EE1B CRC64;
 Query Match 8.7%; Score 174; DB 1; Length 1257;
 Best Local Similarity 30.8%; Pred. No. 2e-06;
 Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;
 QY 38 QRPCKYVIYPHDTSRLNFEAKEACRRDGGQGVSVIESDEQKLIKFKFIENLLPSDGF 97
 DB 1037 QGHYR--YF--AHRRWEDAERDCRRRAGHLTSVHSPEEHKFINSF-----GHENSM 1085
 QY 98 IGLRRREKOSNSTACQDLYAVNTDGSISQFRNRYVDEPS---CGSEVCVVMYHQSPAG 154
 DB 1086 IGLNDRTVRD-----FQMTDNTGLQYENWREKQPDNFFAGGEDCVVMVAHENG--- 1134
 QY 155 IGGPYMFQWNDRCNMKNPFICK 177
 DB 1135 -----RWNDVFCVNYLNVCK 1150
 RESULT 8
 PGCY RAT
 ID_PGCY RAT STANDARD; PRT; 2738 AA.
 AC Q9ERB4; O08592; O08564; Q9RLK4;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Versican core protein precursor (Large fibroblast proteoglycan)
 DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glia)
 DE hyaluronate-binding protein) (GHAP) (Fragments).
 GN CP82.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0), SEQUENCE FROM N.A.
 RP (ISOFORM V3), AND SEQUENCE OF 2657-2738 FROM N.A. (ISOFORM VINT).
 RC STRAIN=Wistar Kyoto;
 RC MEDLINE=99327053; PubMed=10397680;
 RX Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,
 RA Wright T.N.;
 RA "Versican/PG-M isoforms in vascular smooth muscle cells.";
 RT Atherosclerosis. Thromb. Vasc. Biol. 19:1630-1639(1999).
 RN [2]
 RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0).
 RC STRAIN=Wistar Kyoto;
 RX MEDLINE=98308094; PubMed=9642104;
 RA Milev P., Maurel P., Chiba A., Mevissen M., Popp S., Yamaguchi Y.,


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Db      2519 QGQCYK--YF---AHRWDAERECRLOAHUTSILSHEEQMVRNV-----GHDYQ 2566
QY      97  WIGLRREKQSNSTACQDIYAWTDSISQFRNYYVDEP-----SCSEYCVVMYHQSAP 152
Db      2567 WIGL-----NDKMFHDFRDTGSAALQYENRENQDPSPFSAGEDCWIWHENG-- 2616
QY      153 AGTGGPVMFQNDRCNMKNFCKYK-----DEKPAVPREAGE 193
Db      2617 -----QWNDVPCNYHLTYTCKGTACGQPPVVENAKTFGK 2652

RESULT 9
PCV_MOUSE
AC      Q62059; Q62058; Q9CUU0;          PRT; 3358 AA.
DT      01-NOV-1997 (Rel. 35, Created)
DT      01-NOV-1997 (Rel. 35, Last sequence update)
DT      15-MAR-2004 (Rel. 43, Last annotation update)
DE      Versican core protein precursor (Large fibroblast proteoglycan)
GN      (Chondroitin sulfate proteoglycan core protein 2) (PG-M).
OS      Mus musculus (Mouse).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX      NCBI_TaxID=10090;
RN      [1]
RP      SEQUENCE FROM N.A. (ISOFORMS V0; V1 AND V2).
RC      STRAIN=C57BL/6; and Swiss Webster; TISSUE=Brain;
RX      MEDLINE=95122551; PubMed=7823336;
RA      Ito K., Shinomura T., Zako M., Ujita M., Kimata K.;
RT      "Multiple forms of mouse PG-M, a large chondroitin sulfate
RT      proteoglycan generated by alternative splicing.";
RL      J. Biol. Chem. 270:958-965(1995).
RN      [2]
RP      SEQUENCE FROM N.A. (ISOFORM V3).
RC      STRAIN=C57BL/6;
RX      MEDLINE=95181355; PubMed=7876137;
RA      Zako M., Shinomura T., Ujita M., Ito K., Kimata K.;
RT      "Expression of PG-M(V3), an alternatively spliced form of PG-M
RT      without a chondroitin sulfate attachment in region in mouse and human
RT      tissues.";
RL      J. Biol. Chem. 270:3914-3918(1995).
RN      [3]
RP      SEQUENCE OF 1-1692 FROM N.A. (ISOFORM V1).
RC      STRAIN=C57BL/6J; TISSUE=Skin;
RX      MEDLINE=22354683; PubMed=12466851;
RA      Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
RA      Nikaide I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
RA      Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA      Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA      Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA      Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA      Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA      Grimond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA      Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA      Konggaya A., Kurochkin I.V., Lee Y., Lennard B., Lyons P.A.,
RA      Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA      Nagashima T., Nunata K., Okido T., Pavan W.J., Perte G., Pesole G.,
RA      Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramchandran S.,
RA      Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA      Sandelin A., Schneider C., Semple C.A., Setou M., Shinada K.,
RA      Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA      Verardo R., Wegner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA      Wilming L.G., Wysshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA      Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA      Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA      Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
RA      Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
RA      Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
RA      Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA      Birney E., Hayashizaki Y.;

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RT      "Analysis of the mouse transcriptome based on functional annotation of
RT      60,770 full-length cDNAs.";
RL      Nature 420:563-573(2002).
RN      [4]
RP      INTERACTION WITH FBLN1.
RX      MEDLINE=99329059; PubMed=10400671;
RA      Asberg A., Adam S., Koetha G., Timpl R., Heinegaard D.;
RT      "Fibulin-1 is a ligand for the C-type lectin domains of aggrecan and
RT      versican.";
RL      J. Biol. Chem. 274:20444-20449(1999).
CC      -!- FUNCTION: May play a role in intercellular signaling and in
CC      connecting cells with the extracellular matrix. May take part in
CC      the regulation of cell motility, growth and differentiation. Binds
CC      hyaluronic acid.
CC      -!- SUBUNIT: Interacts with FBLN1.
CC      -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC      -!- ALTERNATIVE PRODUCTS:
CC      Event=Alternative splicing; Named isoforms=4;
CC      Comment=Additional isoforms seem to exist;
CC      Name=V0;
CC      IsoId=Q62059-1; Sequence=Displayed;
CC      Name=V1;
CC      IsoId=Q62059-2; Sequence=VSP_003087, VSP_003088;
CC      Name=V2;
CC      IsoId=Q62059-3; Sequence=VSP_003089;
CC      Name=V3;
CC      IsoId=Q62059-4; Sequence=VSP_003087, VSP_003090;
CC      -!- TISSUE SPECIFICITY: V2 is found only in brain.
CC      -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
CC      -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC      -!- SIMILARITY: Contains 2 link domains.
CC      -!- SIMILARITY: Contains 2 EGF-like domains.
CC      -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC      -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC      -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
CC      -----
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CC      -----
CC      EMBL; D16263; BAA03796.1; -.
CC      EMBL; D28599; -. NOT ANNOTATED_CDS.
CC      EMBL; AK014525; BAB29411.2; -.
CC      HSSP; P01132; I2PG.
CC      MGD; MGI:102889; Cbp92.
CC      InterPro; IPR000152; Asx_hydroxyl_s.
CC      InterPro; IPR000742; EGF_2.
CC      InterPro; IPR001881; EGF_Ca.
CC      InterPro; IPR006209; EGF-like.
CC      InterPro; IPR007110; Ig-like.
CC      InterPro; IPR003599; Ig.
CC      InterPro; IPR001304; Lectin_C.
CC      InterPro; IPR000538; Link.
CC      InterPro; IPR000436; Sushi_SCR_CCP.
CC      Pfam; PF00008; EGF; 2.
CC      Pfam; PF00047; ig; 1.
CC      Pfam; PF00059; lectin_c; 1.
CC      Pfam; PF00084; sushi; 1.
CC      Pfam; PF00193; Xlink; 2.
CC      PRINTS; PR01265; LINKMODULE.
CC      PRODOM; PD000918; Link; 2.
CC      SMART; SM00032; CCP; 1.
CC      SMART; SM00034; CLECT; 1.
CC      SMART; SM00179; EGF_CA; 1.
CC      SMART; SM00409; IG_1.
CC      SMART; SM00445; LINK; 2.
CC      PROSITE; PS00010; ASX_HYDROXYL; 1.
CC      PROSITE; PS00615; C_TYPE_LLECTIN; 1.

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DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 2.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF_3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG_LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
 KW signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
 KW Hyaluronic acid; Alternative splicing.
 FT SIGNAL 1 20
 FT CHAIN 21 3358
 FT DOMAIN 21 146
 FT DOMAIN 167 244
 FT DOMAIN 265 346
 FT DOMAIN 348 1308
 FT DOMAIN 1309 3052
 FT DOMAIN 3052 3088
 FT DOMAIN 3090 3126
 FT DOMAIN 3139 3253
 FT DOMAIN 3258 3316
 FT DISULFID 44 130
 FT DISULFID 172 243
 FT DISULFID 196 217
 FT DISULFID 270 333
 FT DISULFID 294 315
 FT DISULFID 3056 3067
 FT DISULFID 3061 3076
 FT DISULFID 3078 3087
 FT DISULFID 3094 3105
 FT DISULFID 3099 3114
 FT DISULFID 3116 3125
 FT DISULFID 3132 3143
 FT DISULFID 3160 3252
 FT DISULFID 3228 3244
 FT DISULFID 3259 3302
 FT DISULFID 3288 3315
 FT CARBOHYD 57 57
 FT CARBOHYD 330 320
 FT CARBOHYD 351 351
 FT CARBOHYD 441 441
 FT CARBOHYD 807 807
 FT CARBOHYD 914 914
 FT CARBOHYD 951 951
 FT CARBOHYD 1305 1305
 FT CARBOHYD 1372 1372
 FT CARBOHYD 1679 1679
 FT CARBOHYD 2054 2054
 FT CARBOHYD 2244 2244
 FT CARBOHYD 2362 2362
 FT CARBOHYD 2627 2627
 FT CARBOHYD 3030 3030
 FT CARBOHYD 3332 3332
 FT CARBOHYD 3342 3342
 FT VARSPLIC 348 348
 FT VARSPLIC 349 1308
 FT VARSPLIC 1309 3052
 FT VARSPLIC 349 3052
 FT CONFLICT 126 126
 FT CONFLICT 348 348
 FT CONFLICT 1658 1658
 FT CONFLICT 1674 1680
 FT CONFLICT 3358 AA; 366938 MW; 071B80046BC0762D CRC64;
 SQ SEQUENCE 3358 AA; 366938 MW; 071B80046BC0762D CRC64;
 Query Match 8.7%; Score 174; DB 1; Length 3358;
 Best Local Similarity 28.5%; Pred. No. 7.6e-06;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QRPCKVIYFHDTSRLNFEFEAKCRDRGOLVSISEDEOKLIEKFTENLLPSGDGF- 96
 DB 3140 QGQCYK--YF---AHRTWDAARECRLOQAHLTSLTSHREOMFNRV-----GHDYQ 3187
 QY 97 WIGLRRERBKQNSTACQDLYAWTDGSIQSFRNYYVDEP-----SCSEVVCVVMYHQPSPAP 152
 DB 3188 WIGL-----NDKMFEDHFRWTDGSLQYENRPNQDPSPFSGAGDCVVIWHENG-- 3237
 QY 153 AGTGGPMFQWDDRCNMKNCKYKVS-----DEKPAVPSRAEAGE 193
 DB 3238 -----QWNVPCNYHLTYTCRKGTVACGPPVVENAKFTGK 3273

RESULT 10
 PCV HUMAN
 ID PCV HUMAN STANDARD; PRT: 3396 AA.
 AC P13611; P20754; Q13010; Q13189; Q15123; Q9UNW5;
 DT 01-JAN-1990 (Rel. 13, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Versican core protein precursor (Large fibroblast proteoglycan)
 DE Versican core protein precursor (Large fibroblast proteoglycan)
 DE Chondroitin sulfate proteoglycan core protein 2 (PG-M) (Glial
 DE hyaluronate-binding protein) (GAP).
 OS CSFG2.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORM V0).
 RX MEDLINE=95105188; PubMed=7528742;
 RA Naso M.F., Zimmermann D.R., Iozzo R.V.;
 RT "Characterization of the complete genomic structure of the human
 RT versican gene and functional analysis of its promoter.";
 RL J. Biol. Chem. 269:32999-33008(1994).
 RN [2]
 RP SEQUENCE FROM N.A. (ISOFORM V1).
 RX TISSUE=Placenta;
 RX MEDLINE=90059882; PubMed=2583089;
 RA Zimmermann D.R., Ruoslahti E.;
 RT "Multiple domains of the large fibroblast proteoglycan, versican.";
 RL EXO J. 8:2975-2981(1989).
 RN [3]
 RP SEQUENCE FROM N.A. (ISOFORM V2).
 RX TISSUE=Glial tumor;
 RX MEDLINE=95105187; PubMed=7806529;
 RA Dours-Zimmermann M.T., Zimmermann D.R.;
 RT "A novel glycosaminoglycan attachment domain identified in two
 RT alternative splice variants of human versican.";
 RL J. Biol. Chem. 269:32992-32998(1994).
 RN [4]
 RP SEQUENCE OF 2711-3396 FROM N.A.
 RX TISSUE=Lung fibroblast;
 RX MEDLINE=88007514; PubMed=2820964;
 RA Krusius T., Gehlsen K.R., Ruoslahti E.;
 RT "A fibroblast chondroitin sulfate proteoglycan core protein contains
 RT lectin-like and growth factor-like sequences.";
 RL J. Biol. Chem. 262:13120-13125(1987).
 RN [5]
 RP SEQUENCE OF 251-347 FROM N.A.
 RX MEDLINE=93122792; PubMed=1478664;
 RA Iozzo R.V., Naso M.F., Cannizzaro L.A., Wasmuth J.J.,
 RA McPherson J.D.;
 RT "Mapping of the versican proteoglycan gene (CSFG2) to the long arm of
 RT human chromosome 5 (5q12-5q14).";
 RL Genomics 14:845-851(1992).
 RN [6]
 RP SEQUENCE FROM N.A. (ISOFORM V3).
 RX TISSUE=Brain;
 RX MEDLINE=95181355; PubMed=7876137;
 RA Zako M., Shinomura T., Ujita M., Ito K., Kimata K.;
 RT "Expression of PG-M(V3), an alternatively spliced form of PG-M
 RT without a chondroitin sulfate attachment in region in mouse and human

RT tissues.";
 RL J. Biol. Chem. 270:3914-3918(1995).
 RN [7]
 RP SEQUENCE OF 3333-3396 FROM N.A. (ISOFORM VINT).
 RC TISSUE=Aortic smooth muscle;
 RX MEDLINE=99327053; PubMed=10397680;
 RA Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,
 RT Wright T.N.;
 RL "Versican/PG-M isoforms in vascular smooth muscle cells.";
 RL Arterioscler. Thromb. Vasc. Biol. 19:1630-1639(1999).
 RN [8]
 RP PARTIAL SEQUENCE.
 RC TISSUE=Brain;
 RX MEDLINE=89174663; PubMed=2466833;
 RA Perides G., Lane W.S., Andrews D., Dahl D., Bignami A.;
 RT "Isolation and partial characterization of a glial
 RT hyaluronate-binding protein.";
 RL J. Biol. Chem. 264:5981-5987(1989).
 RN [9]
 RP TISSUE SPECIFICITY OF ISOFORMS.
 RX MEDLINE=96213482; PubMed=8627343;
 RA Paulus W., Baur I., Dours-Zimmermann M.T., Zimmermann D.R.;
 RT "Differential expression of versican isoforms in brain tumors.";
 RL J. Neuropathol. Exp. Neurol. 55:528-533(1996).
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing: Named isoforms-5;
 CC Comment-Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=PI3611-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=PI3611-2; Sequence=VSP_003082, VSP_003083;
 CC Name=V2;
 CC IsoId=PI3611-3; Sequence=VSP_003084;
 CC Name=V3;
 CC IsoId=PI3611-4; Sequence=VSP_003082, VSP_003085;
 CC Name=Vint;
 CC IsoId=PI3611-5; Sequence=VSP_003086;
 CC -!- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 is expressed
 CC in normal brain, gliomas, medulloblastomas, schwannomas,
 CC neurofibromas, and meningiomas; v2 is restricted to normal brain
 CC and gliomas; v3 is found in all these tissues except
 CC medulloblastomas.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -----
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 CC -----
 CC EMBL; U16306; AAA65018.1; -;
 CC EMBL; X15998; CAA34128.1; -;
 CC EMBL; S52488; AAB24878.1; -;
 CC EMBL; U26555; AAA67565.1; -;
 CC EMBL; D32039; BAA06801.1; -;
 CC EMBL; J02814; AAA36437.1; -;
 CC EMBL; AF084545; AAD48545.1; -;
 CC PIR; S06014; A60979.
 CC HSSP; P01132; 1EGF.

DR Genew; HGNC:2464; CSPG2.
 DR MIN; I18651; -;
 DR GO; GO:0005578; C:extracellular matrix; TAS.
 DR GO; GO:0005540; F:hyaluronic acid binding; TAS.
 DR GO; GO:0008037; P:cell recognition; TAS.
 DR GO; GO:0007275; P:development; TAS.
 DR InterPro; IPR000152; ASX_Hydroxyl_S.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF-Like.
 DR InterPro; IPR007110; Ig-Like.
 DR InterPro; IPR003599; Ig.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR Pfam; PF00008; EGF; 2.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 1.
 DR Pfam; PF00193; Xlink; 2.
 DR PRINTS; PR01265; LINKMODULE.
 DR PRODOM; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00409; IG_1.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX_HYDROXYL; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS00042; EGF_1; 2.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00036; EGF_3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG_Like; 1.
 DR PROSITE; PS01241; Link; 2.
 KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
 KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
 KW Hyaluronic acid; Alternative splicing.
 FT SIGNAL 1 20
 FT CHAIN 21 3396
 FT DOMAIN 21 146
 FT DOMAIN 167 244
 FT DOMAIN 265 346
 FT DOMAIN 348 1335
 FT DOMAIN 1336 3089
 FT DOMAIN 3089 3125
 FT DOMAIN 3127 3163
 FT DOMAIN 3176 3290
 FT DOMAIN 3295 3353
 FT DISULFID 44 130
 FT DISULFID 172 243
 FT DISULFID 196 217
 FT DISULFID 270 345
 FT DISULFID 294 315
 FT DISULFID 3093 3104
 FT DISULFID 3098 3113
 FT DISULFID 3115 3124
 FT DISULFID 3131 3142
 FT DISULFID 3136 3151
 FT DISULFID 3153 3162
 FT DISULFID 3169 3180
 FT DISULFID 3197 3289
 FT DISULFID 3265 3281
 FT DISULFID 3296 3339
 FT DISULFID 3325 3352
 FT CARBOHYD 57 57
 FT CARBOHYD 330 330
 FT CARBOHYD 615 615
 Query Match 8.7%; Score 174; DB 1; Length 3396;
 Best Local Similarity 28.5%; Pred. No. 7.7e-06;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

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QY 38 QRPCVKVYFHDTSRLNFEAKACRRDGGQVLSIBSEBOKLIEFIENLLPSDGDGF- 96
Db 3177 GQCKYK--YF--AHRTWDAAEERCLQGAHLTSLSHQMFVNRV-----GHDYQ 3224

QY 97 WIGLRREEKQNSTACODLYAWTDGSIQPRNMYVDEP-----SCGSEVCVMVHQPSAP 152
Db 3225 WIGL-----NDKMFHDHFRWTDGSLQYENRPNQPSFFSAGEDCVVIWHENG-- 3274

QY 153 AGIGGPNFYFNDNRCKNNKNFIKYS-----DEKPAVPSREAGE 193
Db 3275 -----QNDVPCNYHLTYTCKGTVAAGQPPVVENAKTFGK 3310

RESULT 11
CD93_RAT
ID Q993 RAT STANDARD; PRT: 643 AA.
AC Q9ET61; Q9J126;
DT 28-FEB-2003 (Rel. 41, last sequence update)
DT 10-OCT-2003 (Rel. 42, last annotation update)
DE Complement component C1q receptor precursor (Complement component 1, q
DE subcomponent, receptor 1) (C1qR) (C1qR(p)) (C1q/MBL/SPA receptor)
DE (CD93 antigen), (cell surface antigen AA4).
DE C1QR1 OR CD93 OR C1QRp.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=FVG; TISSUE=Natural killer cells;
RX MEDLINE=20545218; PubMed=11093152;
RA Lovik G., Vaage J.T., Dissen E., Szpirer C., Ryan J.C., Rolstad B.;
RT "Characterization and molecular cloning of rat C1qR, a receptor on NK
RT cells.";
RL Eur. J. Immunol. 30:3355-3362(2000).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Wistar; TISSUE=Lung;
RX MEDLINE=20507883; PubMed=10934210;
RA Dean Y.D., McGreal E.P., Akatsu H., Gasque P.;
RT Molecular and cellular properties of the rat AA4 antigen, a C-type
RT lectin-like receptor with structural homology to thrombomodulin.";
RL J. Biol. Chem. 275:34382-34392(2000).
CC C1q, mannose-binding lectin (MBL2) and pulmonary surfactant
CC protein A (SPA). May mediate the enhancement of phagocytosis in
CC monocytes and macrophages upon interaction with soluble defense
CC collagens. May play a role in intercellular adhesion.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- TISSUE SPECIFICITY: Widely expressed. Highly expressed in lung and
CC heart. Expressed at lower level in brain, thymus, liver, spleen,
CC intestine, kidney, adrenal gland, muscle and testis. Expressed on
CC endothelial cells, platelets, undifferentiated monocytes and
CC circulating natural killer cells.
CC -!- PTM: N- and O-glycosylated (By similarity).
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 5 EGF-like domains.
CC
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CC entities requires a license agreement (See http://www.isb-sib.ch/
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; AF136537; AAC01572.1; -
CC EMBL; AF160978; AAF80402.1; -
CC HSSP; P35555; IEMN.
DR GO; GO:0016021; C:integral to membrane; ISS.
DR GO; GO:0004872; F:receptor activity; ISS.

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DR GO; GO:0016337; P:cell-cell adhesion; ISS.
DR GO; GO:0042116; P:macrophage activation; ISS.
DR GO; GO:006909; P:phagocytosis; ISS.
DR InterPro; IPR001152; Asx hydroxyl_S.
DR InterPro; IPR001181; EGF_Ca.
DR InterPro; IPR006209; EGF_Like.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00008; EGF; 4.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLEF1; 1.
DR SMART; SM00179; EGF_CA; 3.
DR PROSITE; PS00010; ASX HYDROXYL; 3.
DR PROSITE; PS00615; C-TYPE LECTIN_1; FALSE_NEG.
DR PROSITE; PSS0041; C-TYPE LECTIN_2; 1.
DR PROSITE; PS01186; EGF_2; 3.
DR PROSITE; PS00026; EGF_3; 4.
DR PROSITE; PS01187; EGF_CA; 3.
DR PROSITE; PS01187; EGF_CA; 3.
KW Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
KW EGF-like domain; Lectin; Glycoprotein.
FT SIGNAL 1 23 POTENTIAL.
FT CHAIN 24 643 COMPLEMENT COMPONENT C1Q RECEPTOR.
FT DOMAIN 24 571 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 572 592 POTENTIAL.
FT DOMAIN 593 643 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 31 173 C-TYPE LECTIN.
FT DOMAIN 257 298 EGF-LIKE 1.
FT DOMAIN 299 341 EGF-LIKE 2.
FT DOMAIN 342 381 EGF-LIKE 3.
FT DOMAIN 382 423 EGF-LIKE 4.
FT DOMAIN 424 462 EGF-LIKE 5.
FT DISULFID 261 272 BY SIMILARITY.
FT DISULFID 268 282 BY SIMILARITY.
FT DISULFID 284 297 BY SIMILARITY.
FT DISULFID 303 314 BY SIMILARITY.
FT DISULFID 308 325 BY SIMILARITY.
FT DISULFID 327 340 BY SIMILARITY.
FT DISULFID 346 355 BY SIMILARITY.
FT DISULFID 351 364 BY SIMILARITY.
FT DISULFID 366 380 BY SIMILARITY.
FT DISULFID 386 397 BY SIMILARITY.
FT DISULFID 393 406 BY SIMILARITY.
FT DISULFID 408 422 BY SIMILARITY.
FT DISULFID 428 437 BY SIMILARITY.
FT DISULFID 433 446 BY SIMILARITY.
FT DISULFID 448 461 BY SIMILARITY.
FT CARBOHYD 322 322 N-LINKED (GLCNAC...) (POTENTIAL).
FT CARBOHYD 498 498 N-LINKED (GLCNAC...) (POTENTIAL).
FT CONFLICT 417 417 E >> K (IN RSF 2).
SQ SEQUENCE 643 AA; 68781 MW; 9AE4C933AD943DB6 CRC64;

Query Match 8.6%; Score 172.5; DB 1; Length 643;
Best Local Similarity 25.9%; Pred. No. 1.1e-06;
Matches 56; Conservative 37; Mismatches 74; Indels 49; Gaps 11;

QY 14 VLVGLRAATGRLLSGQP-----VCEGQTQPCYKVIYFHDTSRLNFEAKACRRDG 67
Db LLLGL-----LQWLWAGAAADSEAVVCEG---TACTAHW-----GKLSAAEAHQRCNENG 56

QY 68 GOLVSISEDEOKLIEFIENLL-----PSD---GDFWIGLRREEKQNSTACODLYAWT 120
Db GNLATVKSSEEARVQEAALQTLTKAPSETKLGKFWIGLQREKQKCTYHDLPMKGFQSVW 116

QY 121 -DGSISQFRNMY-VDEPSCGSEVCVMV-----HQPAPAGIGGPFYMQWDDRC---- 168
Db GGGEDTYSNWKASKSCISKRCVSLTLDLSLPHPSHLP-----KWHESPQCTP 167

QY 169 ----NMKNFTICKYSDKPAVPSREAGEELETTP 200
Db DAPGNSIEGFLCKFNFKMCSPLALGGFGQLTYTTP 203

RESULT 12
PGCV_CHICK

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ID PGCV_CHICK STANDARD; PRT; 3562 AA.
AC Q90953; Q90945;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (Large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M).
GN CSPG2.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS V0 AND V1).
RC STRAIN=White leghorn; TISSUE=Limb bud;
RX MEDLINE=93300846; PubMed=8314802;
RA Shinomura T., Nishida Y., Ito K., Kimata K.;
RT "CDNA cloning of PG-M, a large chondroitin sulfate proteoglycan
RT expressed during chondrogenesis in chick limb buds. Alternative
RT spliced multi-forms of PG-M and their relationships to versican.";
RL J. Biol. Chem. 268:14461-14469(1993).
CC -!- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q90953-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=Q90953-2; Sequence=VSP_003093;
CC -!- TISSUE SPECIFICITY: Prechondrogenic condensation area of
CC developing limb buds.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -----
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CC -----
DR EMBL; X60226; CAA42787.1; -;
DR EMBL; D13542; BAA02742.1; -;
DR PIR; A47171; A47171.
DR HSP; P00740; LEDM.
DR InterPro; IPR000152; Asx_hydroxyl_S.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF like.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; Ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.

DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C-TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 26
FT CHAIN 27 3562 VERSICAN CORE PROTEIN.
FT DOMAIN 27 143 IG-LIKE V-TYPE.
FT DOMAIN 166 243 LINK 1.
FT DOMAIN 264 345 LINK 2.
FT DOMAIN 3254 3290 EGF-LIKE 1.
FT DOMAIN 3292 3328 EGF-LIKE 2, CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 3341 3455 C-TYPE LECTIN.
FT DOMAIN 3460 3518 SUSHI.
FT DISULFID 44 129 BY SIMILARITY.
FT DISULFID 171 242 BY SIMILARITY.
FT DISULFID 195 216 BY SIMILARITY.
FT DISULFID 269 344 BY SIMILARITY.
FT DISULFID 293 314 BY SIMILARITY.
FT DISULFID 3258 3269 BY SIMILARITY.
FT DISULFID 3263 3278 BY SIMILARITY.
FT DISULFID 3280 3289 BY SIMILARITY.
FT DISULFID 3296 3307 BY SIMILARITY.
FT DISULFID 3301 3316 BY SIMILARITY.
FT DISULFID 3318 3327 BY SIMILARITY.
FT DISULFID 3334 3345 BY SIMILARITY.
FT DISULFID 3362 3454 BY SIMILARITY.
FT DISULFID 3430 3446 BY SIMILARITY.
FT DISULFID 3461 3504 BY SIMILARITY.
FT DISULFID 3490 3517 BY SIMILARITY.
FT CARBOHYD 163 163 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 235 235 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 329 329 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 529 529 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 709 709 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 948 948 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1409 1409 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1479 1479 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1523 1523 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1530 1530 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1625 1625 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1751 1751 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1988 1988 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2088 2088 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2089 2089 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2507 2507 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2642 2642 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2679 2679 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2748 2748 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2762 2762 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3069 3069 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3194 3194 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3232 3232 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3545 3545 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARSPPLIC 485 1411 Missing (in isoform V1).
SQ SEQUENCE 3562 AA; 388078 MW; 9BC566E88C1602D2 CRC64;
/FTId=VSP_003093.

Query Match 8.6%; Score 171; DB 1; Length 3562;
Best Local Similarity 28.5%; Pred. No. 1.5e-05;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QPCYKVIYFHDTSRLNFBFAKACRDGGQLYSIBSEDEOKLIEFIENLLPSDGF- 96
DB 3342 QCCYK--YF---AHRRTWDARECRLOGAHLTSILSHEEQVFNRI-----GHDIQ 3389
QY 97 WIGLRREEKQSNSTACODLYAWTDGTSIQFRNWDPEP-----SCGSEVCVWYHQPSAP 152
DB 3390 WIGL-----NDKMPERDFRWDGSPLOYENRPNQPDGFFSAGEDCVVIIWENG-- 3439
QY 153 AGIGGPFYFNQNDRCNNKNPFICKYS-----DEKPAVPSRAEGE 193
DB 3440 -----QNDVPCNYHLTYTCKGTGTVACGQPPVVENAKTFGK 3475

RESULT 13
PCGA_BOVIN
ID PGCA_BOVIN STANDARD; PRT; 2364 AA.
AC P13608; P79117; Q28159;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core protein) (CSPCP).
GN AGC1.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RA Hering T.M., Kollar J., Huynh T.D.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE OF 563-1056 FROM N.A.
RX MEDLINE=89380219; PubMed=228543;
RA Antonsson P., Heinegaard D., Oldberg A.;
RT "The keratan sulfate-enriched region of bovine cartilage proteoglycan consists of a consecutively repeated hexapeptide motif.";
RL J. Biol. Chem. 264:16170-16173(1989).
RN [3]
RP SEQUENCE OF 1609-2113 AND 2151-2364 FROM N.A.
RX MEDLINE=87270630; PubMed=3111460;
RA Oldberg A., Antonsson P., Heinegaard D.;
RT "The partial amino acid sequence of bovine cartilage proteoglycan, RT deduced from a cDNA clone, contains numerous Ser-Gly sequences arranged in homologous repeats.";
RL Biochem. J. 243:255-259(1987).
RN [4]
RP SEQUENCE OF 2114-2150 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=93352525; PubMed=8349621;
RA Fueloep C., Walcz E., Valyon M., Glant T.T.;
RT "Expression of alternatively spliced epidermal growth factor-like domains in aggregates of different species. Evidence for a novel module.";
RL J. Biol. Chem. 268:17377-17383(1993).
RN [5]
RP PARTIAL SEQUENCE.
RX MEDLINE=85027710; PubMed=6489519;
RA Perin J.-P., Bonnet F., Jolles J., Jolles P.;
RT "Sequence data concerning the protein core of the cartilage proteoglycan monomers. Characterization of a sequence allowing the synthesis of an oligonucleotide probe.";
RL FEBS Lett. 176:37-42(1984).
RN [6]
RP PARTIAL SEQUENCE.
RX MEDLINE=87005253; PubMed=3530809;
RA Perin J.P., Bonnet F., Jolles P.;
RT "Structural relationship between link proteins and proteoglycan monomers.";
RL FEBS Lett. 206:73-77(1986).
CC -!- FUNCTION: This proteoglycan is a major component of extracellular matrix of cartilaginous tissues. A major function of this protein

is to resist compression in cartilage. It binds avidly to hyaluronic acid via an amino-terminal globular region. May play a regulatory role in the matrix assembly of the cartilage.
SUBCELLULAR LOCATION: Secreted; extracellular matrix (By similarity).
ALTERNATIVE PRODUCTS:
Event-Alternative splicing; Named isoforms=2;
Name=1;
IsoId=P13608-1; Sequence=Displayed;
Name=2;
IsoId=P13608-2; Sequence=VSP_003072;
DOMAIN: Two globular domains, G1 and G2, comprise the amino terminus of the proteoglycan, while another globular region, G3, makes up the C-terminus. G1 contains link domains and thus consists of three disulfide-bonded loop structures designated as the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS) and the chondroitin sulfate (CS) attachment domains lie between G2 and G3.
-!- PTM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND O-LINKED (ABOUT 40) OLIGOSACCHARIDES.
-!- PTM: THE KERATAN SULFATE CONTENTS DIFFER CONSIDERABLY BETWEEN ADULT AND FETAL BOVINE PROTEOGLYCANS.
-!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
-!- SIMILARITY: Contains 4 link domains.
-!- SIMILARITY: Contains 1 EGF-like domain.
-!- SIMILARITY: Contains 1 C-type lectin family domain.
-!- SIMILARITY: Contains 1 Sushi (SCR) domain.
-!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.

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EMBL; U76615; AAB38524.1; -;
EMBL; L07053; -; NOT_ANNOTATED_CDS.
PIR; A34234; A39808.
PIR; T42630; T42630.
HSP; P08709; IBE9.
InterPro; IPR002353; AntifreezeII.
InterPro; IPR000152; Asx_hydroxyl_S.
InterPro; IPR000742; EGF_2.
InterPro; IPR001881; EGF_Ca.
InterPro; IPR006209; EGF_Like.
InterPro; IPR007110; Ig_Like.
InterPro; IPR003006; Ig_MHC.
InterPro; IPR001304; Lectin_C.
InterPro; IPR000538; Link.
InterPro; IPR003324; SGXXSG.
InterPro; IPR000436; Sushi_SCR_CCP.
Pfam; PF00008; EGF; 1.
Pfam; PF00047; Ig; 1.
Pfam; PF00059; Lectin_c; 1.
Pfam; PF02339; SGXXSG; 61.
Pfam; PF00084; sushi; 1.
Pfam; PF00193; Xlink; 4.
PRINTS; PR00356; ANTIFREEZEII.
PRINTS; PR01265; LINKMODULE.
ProDom; PD000918; Link; 4.
SMART; SM00032; CCP; 1.
SMART; SM00034; CLECT; 1.
SMART; SM00179; EGF_CA; 1.
SMART; SM00445; LINK; 4.
SMART; SM00010; ASX_HYDROXYL; 1.
PROSITE; PS00015; C_TYPE_LECTIN_1; 1.
PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
PROSITE; PS00022; EGF_1; 1.
PROSITE; PS50026; EGF_3; 1.
PROSITE; PS01187; EGF_CA; 1.
PROSITE; PS50835; IG_Like; 1.

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DR PROSITE; PS00290; IG MHC; FALSE NEG.
DR PROSITE; PS01241; LINK; 4.
KW Glycoprotein; Proteoglycan; Lectin; Sushi; EGF-like domain;
KW Calcium; Alternative splicing; Repeat; Immunoglobulin domain.
FT SIGNAL 1 16
FT CHAIN 17 2364 AGGREGAN CORE PROTEIN.
FT DOMAIN 25 147 IG-LIKE V-TYPE.
FT DOMAIN 170 247 LINK 1.
FT DOMAIN 268 349 LINK 2.
FT DOMAIN 504 581 LINK 3.
FT DOMAIN 602 683 LINK 4.
FT DOMAIN 774 907 LINK 5.
FT DOMAIN 1433 2112 CS-2.
FT DOMAIN 2113 2149 EGF-LIKE, CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 2114 2364 G3.
FT DOMAIN 2161 2276 C-TYPE LECTIN.
FT DOMAIN 2280 2338 SUSHI.
FT DISULFID 51 133 BY SIMILARITY.
FT DISULFID 175 246 BY SIMILARITY.
FT DISULFID 199 220 BY SIMILARITY.
FT DISULFID 273 348 BY SIMILARITY.
FT DISULFID 297 318 BY SIMILARITY.
FT DISULFID 509 580 BY SIMILARITY.
FT DISULFID 533 554 BY SIMILARITY.
FT DISULFID 607 682 BY SIMILARITY.
FT DISULFID 631 652 BY SIMILARITY.
FT DISULFID 2117 2128 BY SIMILARITY.
FT DISULFID 2182 2274 BY SIMILARITY.
FT DISULFID 2250 2266 BY SIMILARITY.
FT DISULFID 2281 2324 BY SIMILARITY.
FT DISULFID 2310 2337 BY SIMILARITY.
FT CARBOHYD 126 126 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 239 239 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 333 333 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 387 387 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 611 611 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 667 667 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARSPIC 2114 2150 Missing (in isoform 2).
FT FTID=VSP_003072.
SQ SEQUENCE 2364 AA; 246359 MW; 6FF83763420C3D4C CRC64;

Query Match 7.9%; Score 158.5; DB 1; Length 2364;
Best Local Similarity 26.8%; Pred. No. 9.7e-05;
Matches 48; Conservative 29; Mismatches 59; Indels 43; Gaps 10;

QY 30 QVCRGG---TORPCYKVIYFHTDTRRLNFEAKACRRDGGQLVSISEDEQKLEKFI 86
Db 2151 QKLCSEGWTKFGHCYR--HFPPD---RATWVDAESQCRKQKQSHLSIVTPBEQ----EFV 2201
QY 87 ENLLPSDGF-NIGLRRREKQNSTACQDLVATDGSISOFNRWYVDEP---SCGSEV 141
Db 2202 NN---NAQDYQWIGL-----NDKTEGFRRSDGHSLOFENWRPNQDNFATGDC 2250
QY 142 CVVMYHQPSAPAGIGGPMYFQWDRCKMKNFKICKYS-----DEKPAVPSRAEGEETE 196
Db 2251 VVMWHEKG-----EWNVDPCNVQLPFTCKGTVACGPPVVEHARIFQKQKD 2298

RESULT 14
PGCA HUMAN
ID PGCA HUMAN STANDARD; PRT; 2415 AA.
AC P61112; Q13650;
DT 01-APR-1990 (Rel. 14, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core
DE protein) (CSGPC) (Chondroitin sulfate proteoglycan core protein 1).
GN AGC1 OR CSGP1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
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RN RP SEQUENCE FROM N.A. (ISOFORM 3).
RC TISSUE=Chondrocytes;
RX MEDLINE=91093289; PubMed=1985970;
RA Doerge K.J., Sasaki M., Kimura T., Yamada Y.;
RT "Complete coding sequence and deduced primary structure of the human
RT cartilage large aggregating proteoglycan, aggrecan. Human-specific
RT repeats, and additional alternatively spliced forms.";
RN J. Biol. Chem. 266:894-902(1991).
RL [2]
RP SEQUENCE OF 1778-2415 FROM N.A. (ISOFORM 2).
RC TISSUE=Chondrocytes;
RA Dudhia J., Hardingham T.E.;
RL Submitted (JAN-1990) to the EMBL/GenBank/DBJ databases.
[3]
RP SEQUENCE OF 1936-2415 FROM N.A. (ISOFORM 1).
RX MEDLINE=89380154; PubMed=2789216;
RA Baldwin C.T., Reginato A.M., Prockop D.J.;
RT "A new epidermal growth factor-like domain in the human core protein
RT for the large cartilage-specific proteoglycan. Evidence for
RT alternative splicing of the domain.";
RN J. Biol. Chem. 264:15747-15750(1989).
RL [4]
RP SEQUENCE OF 764-864 FROM N.A.
RC TISSUE=Blood;
RX MEDLINE=95128522; PubMed=7827755;
RA Barry F.P., Neame P.J., Sasse J., Pearson D.;
RT "Length variation in the keratan sulfate domain of mammalian
RT aggrecan.";
RL Matrix Biol. 14:323-328(1994).
CC -!- FUNCTION: THIS PROTEOGLYCAN IS A MAJOR COMPONENT OF EXTRACELLULAR
CC MATRIX OF CARTILAGINOUS TISSUES. A MAJOR FUNCTION OF THIS PROTEIN
CC IS TO RESIST COMPRESSION IN CARTILAGE. IT BINDS AVIDLY TO
CC HYALURONIC ACID VIA AN AMINO-TERMINAL GLOBULAR REGION.
CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
CC similarity).
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Comment=Additional isoforms seem to exist;
CC Name=1;
CC IsoId=P16112-1; Sequence=Displayed;
CC Name=2;
CC IsoId=P16112-2; Sequence=VSP_003074;
CC Name=3;
CC IsoId=P16112-3; Sequence=VSP_003074, VSP_003075;
CC -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino
CC terminus of the proteoglycan, while another globular region, G3,
CC makes up the COOH terminus. G1 contains link domains and thus
CC consists of three disulfide-bonded loop structures designated as
CC the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)
CC and the chondroitin sulfate (CS) attachment domains lie between G2
CC and G3.
CC -!- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate
CC chains, N-linked and O-linked oligosaccharides.
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 4 link domains.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; M55172; AAA62824.1; -
CC EMBL; J05062; AAA35726.1; -
CC EMBL; X17406; CAA35463.1; -
CC -----
DR DR EMBL; M55172; AAA62824.1; -
DR DR EMBL; J05062; AAA35726.1; -
DR DR EMBL; X17406; CAA35463.1; -
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DR EMBL; S74659; AAC60643.2; -.
DR PIR; A39086; A39086.
DR HSP; P98066; ITSG.
DR Genew; HGNC:319; AGC1.
DR MIM; 155760; -.
DR InterPro; IPR006209; EGF like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003599; IG.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR011304; Lectin_C.
DR InterPro; IPR000338; Link.
DR InterPro; IPR003324; SGXSG.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00047; Ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF02339; SGXSG; 71.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; xlink; 4.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 4.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 4.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN 2; 1.
DR PROSITE; PS00022; EGF 1; 1.
DR PROSITE; PS01186; EGF 2; 1.
DR PROSITE; PS00026; EGF 3; 1.
DR PROSITE; PS00835; IG-LIKE; 1.
DR PROSITE; PS00290; IG_MHC; 1.
DR PROSITE; PS01241; LINK; 3.
DR GlycoProtein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
KW Alternative splicing; Repeat; Immunoglobulin domain.
FT SIGNAL 1 19
FT CHAIN 20 2415
FT DOMAIN 34 147
FT DOMAIN 170 247
FT DOMAIN 268 349
FT DOMAIN 495 572
FT DOMAIN 593 673
FT DOMAIN 2164 2199
FT DOMAIN 2201 2327
FT DOMAIN 2331 2389
FT DOMAIN 48 141
FT DOMAIN 152 247
FT DOMAIN 253 349
FT DOMAIN 477 571
FT DOMAIN 578 672
FT DOMAIN 676 848
FT DOMAIN 772 844
FT DOMAIN 851 1497
FT DOMAIN 941 1497
FT DOMAIN 1498 2162
FT DOMAIN 2163 2415
FT DISULFID 51 133
FT DISULFID 175 246
FT DISULFID 199 220
FT DISULFID 273 348
FT DISULFID 297 318
FT DISULFID 500 571
FT DISULFID 524 545
FT DISULFID 598 672
FT DISULFID 621 642
FT DISULFID 2168 2178
FT DISULFID 2173 2187
FT DISULFID 2189 2198
FT DISULFID 2205 2216
FT DISULFID 2233 2325
FT DISULFID 2301 2317
BY SIMILARITY.
BY SIMILARITY.
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
(POTENTIAL).
Missing (in isoform 2 and isoform 3).
/FTid=VSP_003074.
Missing (in isoform 3).
/FTid=VSP_003075.
E -> A (IN REF. 4).
E -> V (IN REF. 4).
E -> A (IN REF. 2).
I -> V (IN REF. 2 AND 3).
P -> A (IN REF. 3).
A -> P (IN REF. 2 AND 3).
Query Match 7.9%; Score 158.5; DB 1; Length 2415;
Best Local Similarity 29.1%; Pred. No. 9.9e-05;
Matches 52; Conservative 22; Mismatches 62; Indels 43; Gaps 11;
Oy 30 QPVCRG---TORPCYKVIYFHTSRLLNPEEAKACRRDGGOLVSTSEDEQKLEKFI 86
Db 2202 QEVCEGWNKYQGHCVY--HFPD---RETWVDARRCREQQSHLSIVTPEQ---EFV 2252
Oy 87 ENLLPSDGF-WIGLLRRREKQSNSTACQDLYAWTQSGISQFRNXYVDEPS---CGSEVC 142
Db 2253 NN---NAQDYQWIGL-----NDRTIEGDFSWDGHQPMQFENRQPNDFFAAGDC 2301
Oy 143 VVM-YHOPSPAGIGGYPFQWDDRRCKNNFICKYS-----DEKPAVPSREAGEETE 196
Db 2302 VVMIMHEKG-----EMNDVPCNHYLPTCKKGTACGPPVVEHARTFGQKCD 2349
RESULT 15
CD93_HUMAN STANDARD; PRT; 652 AA.
ID CD93_HUMAN
AC Q9NPY3; O00274;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Complement component C1q receptor precursor (Complement component 1, q
DE subcomponent, receptor 1) (C1qr) (C1qr(p)) (C1q/MBL/SPA receptor)
DE (CD93 antigen) (CDw93).
GN C1QR1 OR CD93.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
[1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RX MEDLINE=97199258; PubMed=9047234;
RA Nepomuceno R.R., Henschen-Edman A.H., Burgess W.H., Tenner A.J.;
RT "cDNA cloning and primary structure analysis of C1QR(P), the human
RL C1q/MBL/SPA receptor that mediates enhanced phagocytosis in vitro.";
RN Immunity 6:119-129(1997).
[2]
RP SEQUENCE FROM N.A., AND VARIANT ALA-318.
RX MEDLINE=21640567; PubMed=11781389;
RA Steinberger P., Szekeres A., Wille S., Stockl J., Selenko N.,
RA Prager E., Staffler G., Madic O., Stockinger H., Knapp W.;
RT "Identification of human CD93 as the phagocytic C1q receptor (C1qrp)
RL by expression cloning.";
RN J. Leukoc. Biol. 71:133-140(2002).
[3]
RP SEQUENCE FROM N.A.
RX MEDLINE=21638749; PubMed=11780052;

RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Babbage A.K., Baggeley C.L., Jones M., Stavrides G., Almeida J.P., Babbage A.K., Baggeley C.L., Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., Baileys O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J., Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P., Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M., Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., Coulson A., Coville G.J., Deadman R., Dhani P.D., Dunn M., Ellington A.G., Frankland J.A., Fraser A., French L., Garner P., Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E., Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J., Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D., Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S., Lehaevaiaho M.H., Leverisha M.A., Lloyd C., Lloyd D.M., Lovell J.D., Marsh V.L., Martin S.L., McConachie L.J., McLay K., McMurray A.A., Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T., Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I., Phillimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H., Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Showkeen R., Sims S., Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E., Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A., Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M., Whitehead S.L., Whitaker P., Willey D.L., Williams L., Williams S.A., Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S., Rogers J.;
 RA "The DNA sequence and comparative analysis of human chromosome 20.";
 RT Nature 414:865-871(2001).
 RL [4]
 RN
 RP SEQUENCE FROM N.A.
 RC TISSUE=Leukocyte;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh P., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.B., Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Frange C., Raha S.A., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E., Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RA "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences";
 RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RL [5]
 RN
 RP CHARACTERIZATION.
 RX MEDLINE=21990337; PubMed=11994479;
 RA McGreal E.P., Ikegaki N., Akatsu H., Morgan B.P., Gasque P.;
 RT "Human ClqP is identical with CD93 and the mni-11 antigen but does not bind Clq";
 RT J. Immunol. 168:5222-5232(2002).
 RL [6]
 RN
 RP O-GLYCOSYLATION.
 RX MEDLINE=99192777; PubMed=10092817;
 RA Nepomuceno R.R., Ruiz S., Park M., Tenner A.J.;
 RT "ClqRP is a heavily O-glycosylated cell surface protein involved in the regulation of phagocytic activity";
 RT J. Immunol. 162:3583-3589(1999).
 RL
 CC -!- FUNCTION: Receptor (or element of a larger receptor complex) for Clq, mannose-binding lectin (MBL2) and pulmonary surfactant protein A (SPA). May mediate the enhancement of phagocytosis in monocytes and macrophages upon interaction with soluble defense collagens. May play a role in intercellular adhesion.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- TISSUE SPECIFICITY: Highly expressed in endothelial cells, platelets, cells of myeloid origin, such as monocytes and

CC neutrophils. Not expressed in cells of lymphoid origin.
 CC -!- PM: N- and O-glycosylated.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 5 EGF-like domains.
 CC -!- CAUTION: Has been sometimes referred to as a collectin receptor.
 CC -!- CAUTION: According to Ref.5, Clq is not a ligand for ClqRI.
 CC -!- DATABASE: NAME=PROW; NOTE=PROW 3:1-6(2001);
 CC WWW="http://www.ncbi.nlm.nih.gov/prov/guide/467246456.g.htm".
 CC
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 CC -----
 CC EMBL; U94333; AAB53110.1; -;
 CC EMBL; AL118508; CAC00597.1; -;
 CC EMBL; BC028075; AAB28075.1; -;
 CC HSSP; P35555; 1BMN;
 CC Genew; HGNC:15855; ClqRI.
 CC MIN; 120577; -;
 CC GO; GO:0016021; C:integral to membrane; IC.
 CC GO; GO:0004872; F:receptor activity; NAS.
 CC GO; GO:0016337; P:cell-cell adhesion; IDA.
 CC GO; GO:0042116; P:macrophage activation; NAS.
 CC GO; GO:0006909; P:phagocytosis; NAS.
 CC InterPro; IPR000152; ASX_hydroxyl_S.
 CC InterPro; IPR001881; EGF_Ca.
 CC InterPro; IPR006209; EGF-like.
 CC InterPro; IPR001304; Lectin_C.
 CC Pfam; PF00008; EGF; 5.
 CC Pfam; PF00059; lectin_c; 1.
 CC SMART; SMC0034; CLECT_1.
 CC SMART; SMC0179; EGF_CA; 3.
 CC PROSITE; PS00010; ASX_HYDROXYL; 3.
 CC PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.
 CC PROSITE; PS0041; C_TYPE_LECTIN_2; 1.
 CC PROSITE; PS01186; EGF_2; 3.
 CC PROSITE; PS00026; EGF_3; 3.
 CC PROSITE; PS01187; EGF_CA; 3.
 CC Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
 CC EGF-like domain; Lectin; Glycoprotein; Polymorphism.
 CC SIGNAL
 CC CHAIN 1 21
 CC DOMAIN 22 652 COMPLEMENT COMPONENT Clq RECEPTOR.
 CC TRANSMEM 24 580 EXTRACELLULAR (POTENTIAL).
 CC DOMAIN 581 601 POTENTIAL.
 CC DOMAIN 602 652 CYTOPLASMIC (POTENTIAL).
 CC DOMAIN 32 174 C-TYPE LECTIN.
 CC DOMAIN 260 301 EGF-LIKE 1.
 CC DOMAIN 302 344 EGF-LIKE 2.
 CC DOMAIN 345 384 EGF-LIKE 3.
 CC DOMAIN 385 426 EGF-LIKE 4.
 CC DOMAIN 427 468 EGF-LIKE 5.
 CC DOMAIN 594 601 POLY-LEU.
 CC DISULFID 264 275 BY SIMILARITY.
 CC DISULFID 271 285 BY SIMILARITY.
 CC DISULFID 287 300 BY SIMILARITY.
 CC DISULFID 306 317 BY SIMILARITY.
 CC DISULFID 311 328 BY SIMILARITY.
 CC DISULFID 330 343 BY SIMILARITY.
 CC DISULFID 349 358 BY SIMILARITY.
 CC DISULFID 354 367 BY SIMILARITY.
 CC DISULFID 369 383 BY SIMILARITY.
 CC DISULFID 389 400 BY SIMILARITY.
 CC DISULFID 396 409 BY SIMILARITY.
 CC DISULFID 411 425 BY SIMILARITY.
 CC DISULFID 431 443 BY SIMILARITY.
 CC DISULFID 439 452 BY SIMILARITY.
 CC DISULFID 454 467 BY SIMILARITY.
 CC CARBOHYD 325 345 N-LINKED (GLUCNAC. .) (POTENTIAL).
 CC VARIANT 318 318 V -> A.


```
FT CONFLICT 22 22 /FTid=VAR 013573.
FT CONFLICT 36 36 T -> V (IN REF. 1; AA SEQUENCE).
FT CONFLICT 38 36 C -> T (IN REF. 1; AA SEQUENCE).
FT CONFLICT 39 39 TA -> RI (IN REF. 1; AA SEQUENCE).
FT CONFLICT 155 155 S -> N (IN REF. 1).
FT CONFLICT 186 186 G -> A (IN REF. 1; AA SEQUENCE).
FT CONFLICT 492 492 S -> A (IN REF. 1; AA SEQUENCE).
FT CONFLICT 496 496 R -> Q (IN REF. 1; AA SEQUENCE).
FT CONFLICT 504 504 R -> G (IN REF. 1; AA SEQUENCE).
FT CONFLICT 541 541 P -> S (IN REF. 1).
SQ SEQUENCE 652 AA; 68560 MW; ECA0FEAC55FCAC2 CRC64;

Query Match 7.9%; Score 157.5; DB 1; Length 652;
Best Local Similarity 25.2%; Pred. No. 2e-05;
Matches 53; Conservative 40; Mismatches 84; Indels 33; Gaps 9;

Qy 10 VLLAVLVGLRAATGRLLSGQPCVCGGTQPCYKVIYFHDTSRRINFEAEKACRRDGGQ 69
Db :||:|
9 LLLLLLTPGAGTGADTEA-VVCGV---TACYTA-----HSGKLSAAEAQNHCHNQNGN 59
Qy 70 LVSISEDEQKLIKFIENLIFSD-----GDFWIGLRREKQSNSTACQDLYAWT-D 121
Db :||:|
60 LATVSKKEAQHVQRVLAQLLRREAAALTARMSKFWIGLQREKKGKLDPLKGFSGVWVG 119
Qy 122 GSISQFRWYVD-EFSCGSEVCVVM---YHQPSAPAGIGGYPMPQWDDRCNMKN--- 173
Db :||:|
120 GEDTPYSNWKELRNKSCISKCVSLLDLSQPLPSRLP-----KWSEGPCGSPGSGSN 174
Qy 174 ---FICKYSDEKPAVPSREAEGETELTTP 200
Db :||:|
175 IEGVCKFSFKGMCRPLALGGPGQVYTYTP 204
```

Search completed: September 9, 2004, 22:21:45
Job time : 14 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:19:06 ; Search time 43 Seconds
(without alignments)

2744.275 Million cell updates/sec

Title: US-09-887-855-2

Perfect score: 2000

Sequence: 1 MRPGTALQAVLLVGLR.....PDQGRSKBSQWVENIYGY 374

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL.25.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mhc.*
- 8: sp_orcanelle.*
- 9: sp_phage.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_rvirus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query %	Match	Length	ID	Description
1	2000	100.0	374	4	Q96NF3	Q96nf3 homo sapien
2	1997	99.9	374	4	Q8TAY8	Q8tay8 homo sapien
3	1996	99.8	374	4	Q96NC5	Q96nc5 homo sapien
4	1697.5	84.9	374	11	Q92Z09	Q92z09 cricetus
5	862.5	43.1	211	11	Q8C351	Q8c351 mus musculus
6	652	32.6	292	11	Q8BVU2	Q8bv2 mus musculus
7	646	32.3	246	11	Q8BM17	Q8bm17 mus musculus
8	576	28.8	232	4	Q7Z799	Q7z799 homo sapien
9	513	25.7	236	4	Q7Z798	Q7z798 homo sapien
10	500	25.0	236	4	Q7Z7A0	Q7z7a0 homo sapien
11	185	9.2	1290	13	Q9W6E1	Q9w6e1 gallus gall
12	178.5	8.9	1456	11	Q61830	Q61830 mus musculus
13	177.5	8.9	1348	5	Q25199	Q25199 hydra atten
14	176.5	8.8	1479	4	Q9Y5P9	Q9y5p9 homo sapien
15	176.5	8.8	1479	4	Q9UBG0	Q9ubg0 homo sapien
16	170.5	8.5	1479	11	Q64449	Q64449 mus musculus

17	169	8.5	217	11	Q8C4F8	Q8c4f8 mus musculus
18	165.5	8.3	742	11	Q8K4Q8	Q8k4q8 mus musculus
19	165.5	8.3	742	11	Q8C979	Q8c979 mus musculus
20	161.5	8.1	134	5	Q9VXK3	Q9vxk3 hydra magni
21	159.5	8.0	742	11	Q8VIF6	Q8vif6 mus musculus
22	159	8.0	1031	5	Q8WSX2	Q8wsx2 dugesia tig
23	158	7.9	142	11	Q8CJ86	Q8cj86 mus musculus
24	158	7.9	142	11	Q8BHK7	Q8bhk7 mus musculus
25	158	7.9	295	11	Q91ZW4	Q91zw4 mus musculus
26	158	7.9	311	11	Q9D8V4	Q9d8v4 mus musculus
27	158	7.9	325	11	Q91ZX0	Q91zx0 mus musculus
28	157.5	7.9	358	6	Q8HY04	Q8hy04 papio hamad
29	157.5	7.9	381	6	Q8SQB2	Q8sqb2 macaca mula
30	157.5	7.9	652	4	Q8IXK1	Q8ixk1 homo sapien
31	157	7.8	158	13	Q90W17	Q90w17 bungarus fa
32	156	7.8	162	5	Q25459	Q25459 megabalanus
33	156	7.8	323	11	Q8CJ91	Q8cj91 mus musculus
34	156	7.8	339	6	Q95244	Q95244 sus scrofa
35	155	7.8	293	11	Q8BGZ0	Q8bgz0 mus musculus
36	155	7.8	323	11	Q8CJ94	Q8cj94 mus musculus
37	155	7.8	323	11	Q8CJ93	Q8cj93 mus musculus
38	155	7.8	323	11	Q8CJ88	Q8cj88 mus musculus
39	155	7.8	379	11	Q7TMA7	Q7tma7 mus musculus
40	155	7.8	381	6	Q95LA8	Q95la8 macaca mula
41	155	7.8	473	11	Q7TSP9	Q7tsp9 mus musculus
42	155	7.8	477	11	Q7TSQ7	Q7tsq7 mus musculus
43	155	7.8	504	11	Q7TSQ0	Q7tsq0 mus musculus
44	155	7.8	534	11	Q7TSQ1	Q7tsq1 mus musculus
45	155	7.8	1152	13	Q90WM2	Q90wm2 xenopus lae

ALIGNMENTS

RESULT 1

Q96NF3 ID Q96NF3 PRELIMINARY; PRT; 374 AA.

AC Q96NF3; 01-DEC-2001 (TrEMBLrel. 19, Created)

DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

DE Hypothetical protein FLJ30977.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Ishibashi T., Kanehori K., Yosida M., Watanabe S., Ishida S., Ono Y.,

RA Hotuta T., Hiraoka S., Murakawa K., Takiguchi S., Kusano J.,

RA Watanabe M., Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y.,

RA Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S.,

RA Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T.,

RA Kimura K., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K.,

RA Wagatsuma M., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,

RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Negai K., Isogai T.,

RT "NEDO human cDNA sequencing project."

RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.

EMBL: AK055539; BAB70946.1; -

GO: GO:0005539; F.sugar binding; IEA.

InterPro: IPR001304; Lectin_C.

Pfam: PF00059; lectin_c; 1.

SMART: SM00034; CLECT; 1.

PROSITE: PS00041; C_TYPE_LLECTIN_2; 1.

KW Hypothetical protein.

SQ SEQUENCE 374 AA; 42280 MW; 8AE64E6BC9B56DCD CRC64;

Query Match 100.0%; Score 2000; DB 4; Length 374;

Best Local Similarity 100.0%; Pred. No. 3e-179;

Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPGTALQAVLLVGLRAATGRLLSGQVPCVRCGGFQPCYKVIYFHDTSRRINFEAK 60

Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAVPSRAEGEETELTTPVLPETQEDAKTKFESREAAINLAYILIPISILLV 240
 Db 181 EKPAVPSRAEGEETELTTPVLPETQEDAKTKFESREAAINLAYILIPISILLV 240
 QY 241 VTTVVCWVWICRRKREQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRRKREQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 QY 301 DLKNTISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYFSPDQMR 360
 Db 301 DLKNTISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYFSPDQMR 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 2

ID Q8TAY8 PRELIMINARY; PRT; 374 AA.
 AC Q8TAY8;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Similar to unnamed protein product.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA Strausberg R.;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC025407; AAH25407.1; -;
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 SQ SEQUENCE 374 AA; 42312 MW; FC214B6BC9E578D9 CRC64;

Query Match 99.9%; Score 1997; DB 4; Length 374;
 Best Local Similarity 99.7%; Pred. No. 5.7e-179;
 Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAVPSRAEGEETELTTPVLPETQEDAKTKFESREAAINLAYILIPISILLV 240
 Db 181 EKPAVPSRAEGEETELTTPVLPETQEDAKTKFESREAAINLAYILIPISILLV 240
 QY 241 VTTVVCWVWICRRKREQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300

Db 241 VTTVVCWVWICRRKREQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 QY 301 DLKNTISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYFSPDQMR 360
 Db 301 DLKNTISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYFSPDQMR 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 3
 Q96NC5 PRELIMINARY; PRT; 374 AA.
 AC Q96NC5;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Hypothetical protein FLJ31092.
 OS Homo sapiens (human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S.,
 RA Fukuzumi Y., Fujimori Y., Komiyama M., Sugiyama T., Irie R.,
 RA Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y.,
 RA Kawai-Hiro Y., Saito K., Nishikawa T., Kimura K., Yamashita H.,
 RA Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K., Wagatsuma M.,
 RA Murakawa K., Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A.,
 RA Kawakami B., Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K.,
 RA Isogai T.;
 RT "NEDO human cDNA sequencing project";
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AK055654; BAB70978.1; -;
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 374 AA; 42310 MW; CBF74E676E23BA16 CRC64;

Query Match 99.8%; Score 1996; DB 4; Length 374;
 Best Local Similarity 99.7%; Pred. No. 7.1e-179;
 Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSIESDEQKLEKFIENLLPSDGFVWGLRRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAVPSRAEGEETELTTPVLPETQEDAKTKFESREAAINLAYILIPISILLV 240
 Db 181 EKPAVPSRAEGEETELTTPVLPETQEDAKTKFESREAAINLAYILIPISILLV 240
 QY 241 VTTVVCWVWICRRKREQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRRKREQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 QY 301 DLKNTISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYFSPDQMR 360
 Db 301 DLKNTISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYFSPDQMR 360

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QY 361 SKESGWVENEIYG 374
DB 361 SKESGWVENEIYG 374

RESULT 4
Q32209 Q32209 PRELIMINARY; PRT; 374 AA.
AC Q32209;
DT 01-MAY-1999 (TREMBlrel. 10, Created)
DT 01-MAY-1999 (TREMBlrel. 10, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE Lavinlin.
OS Cricetus griseus (Chinese hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
OC Cricetulus.
NCBI_TaxID=10029;
RN [1]
RP SEQUENCE FROM N.A.
RA Borowsky M.L., Hynes R.O.;
RT "Lavinlin, a novel talin-binding transmembrane protein homologous with
RT C-type lectins, is localized in membrane ruffles.";
RL J. Cell Biol. 143:0-0(1998).
DR EMBL; AF093673; AAC68695.1; -.
DR HSP; P22897; IEGG.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 374 AA; 42435 MW; 298A8BA24FB04E1C CRC64;

Query Match 84.9%; Score 1697.5; DB 11; Length 374;
Best Local Similarity 84.7%; Pred. No. 7.8e-151;
Matches 316; Conservative 23; Mismatches 33; Indels 1; Gaps 1;

QY 1 MFGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGQTPPCVKIYFHDTSR 60
DB 1 MQGPAALQAVLLAVLLVGLRAATGRLLSGQPVCRGQTPPCVKIYFHDTSR 60

QY 61 EACRDGGQLVSIEDSQKLEKIEIENLLPSDGFVWGLRRRREKQSNSTACQDLYAWT 120
DB 61 EACRDGGQLVSIEDSQKLEKIEIENLLPSDGFVWGLRRRREKQSNSTACQDLYAWT 120

QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKNFKCKYSD 180
DB 121 DGSISQFRNYYVDEPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKNFKCKYSD 180

QY 181 EKPA-VPSREAGEETELTPVLPBETQEDAKTKFSSREAAALNAYILIPSLILL 239
DB 181 EKPA-VPSREAGEETELTPVLPBETQEDAKTKFSSREAAALNAYILIPSLILL 239

QY 240 VTTVVVWVICRKRKQEPDSTKQHTIPSPHQSNDPDLVNVIRKQSEADLAETR 299
DB 240 VTTVVVWVICRKRKQEPDSTKQHTIPSPHQSNDPDLVNVIRKQSEADLAETR 299

QY 300 PDLKNISFRVCSGEATPDMSCDYDNMAVNPSESGFVLVSVEGFTVNDIYFSPDQMG 359
DB 300 PDLKNISFRVCSGEATPDMSCDYDNMAVNPSESGFVLVSVEGFTVNDIYFSPDQMG 359

QY 360 RKESGWVENEIY 372
DB 361 RKESGWVENEIY 373

RESULT 5
Q8C351 Q8C351 PRELIMINARY; PRT; 211 AA.
AC Q8C351;
DT 01-MAR-2003 (TREMBlrel. 23, Created)
DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)

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DE LAVILIN homolog (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6J; TISSUE=Lung;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
DR EMBL; AK066930; BAC39765.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
RN NON TER 211
SQ SEQUENCE 211 AA; 23697 MW; AD9870B5957DDSAE CRC64;

Query Match 43.1%; Score 862.5; DB 11; Length 211;
Best Local Similarity 77.7%; Pred. No. 1e-72;
Matches 164; Conservative 12; Mismatches 26; Indels 9; Gaps 2;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGQTPPCVKIYFHDTSR 52
DB 1 MQGPAALQAVLLAVLLVGLRAATGRLLSGQPVCRGQTPPCVKIYFHDTSR 52

QY 53 RLNPEEAKERRDGGQLVSIEDSQKLEKIEIENLLPSDGFVWGLRRRREKQSNST 112
DB 53 RLNPEEAKERRDGGQLVSIEDSQKLEKIEIENLLPSDGFVWGLRRRREKQSNST 112

QY 61 RLNPEEAKETCMEDGGQLVSIEDSQKLEKIEIENLLPSDGFVWGLRRRREKQSNST 120
DB 61 RLNPEEAKETCMEDGGQLVSIEDSQKLEKIEIENLLPSDGFVWGLRRRREKQSNST 120

QY 113 CQDLYAWTDSISQFRNYYVDEPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKN 172
DB 113 CQDLYAWTDSISQFRNYYVDEPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKN 172

QY 121 CQDLYAWTDSISQFRNYYVDEPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKN 180
DB 121 CQDLYAWTDSISQFRNYYVDEPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKN 180

QY 173 NFICKYDSEKPA-VPSREAGEETELTPVL 202
DB 173 NFICKYDSEKPA-VPSREAGEETELTPVL 202

QY 181 NFICKYDSEKPA-VPSREAGEETELTPVL 211
DB 181 NFICKYDSEKPA-VPSREAGEETELTPVL 211

RESULT 6
Q8BVU2 Q8BVU2 PRELIMINARY; PRT; 292 AA.
AC Q8BVU2;
DT 01-MAR-2003 (TREMBlrel. 23, Created)
DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE C-type lectin protein MT75 homolog.
GN CHODL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6J; TISSUE=Head;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
DR EMBL; AK076523; BAC36378.1; -.
DR MGD; MGI:2179069; Chodl.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.

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DT 01-NOV-1996 (T-EMBLrel. 01, Created)
 DT 01-NOV-1996 (T-EMBLrel. 01, Last sequence update)
 DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
 DE Macrophage mannose receptor precursor.
 GN MRC1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6;
 RX MEDLINE=93043353; PubMed=1421407;
 RA Harris N., Rits M., Chang G., Ezekowitz R.B.;
 RT "Characterization of the murine macrophage mannose receptor.";
 RL Blood 80:2363-2373 (1992).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6;
 RX MEDLINE=20209407; PubMed=10744720;
 RA Reidling J.C., Miller M.A., Steele R.E.;
 RT "Sweet Tooth, a Novel Receptor Protein-tyrosine Kinase with C-type
 Lectin-like Extracellular Domains.";
 RL J. Biol. Chem. 275:10323-10330 (2000).
 DR EMBL; L22612; AAA29218.2;
 DR HSP; P11362; IFGK.
 DR GO; GO:0005524; F:ATP binding; IEA.
 DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
 DR GO; GO:0004872; F:receptor activity; IEA.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR GO; GO:0016740; F:transferase activity; IEA.
 DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR InterPro; IPR003990; Pancreatin.ac.
 DR InterPro; IPR000719; Prot_kinase.
 DR InterPro; IPR001245; Tyr_kinase.
 DR InterPro; IPR008266; Tyr_kinase_AS.
 DR Pfam; PF00059; lectin_c; 4.
 DR Pfam; PF00059; Pkinase; 1.
 DR PRINTS; PR01504; PNCREATINAP.
 DR PRODOM; PD000001; Prot_kinase; 2.
 DR SMART; SM00034; CLECT; 4.
 DR SMART; SM00219; Tyrc; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 2.
 DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 4.
 DR PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.
 DR PROSITE; PS00011; PROTEIN_KINASE_DOM; 1.
 DR PROSITE; PS00109; PROTEIN_KINASE_TYR; 1.
 KW ATP-binding; Kinase; Receptor; Transferase; Tyrosine-protein kinase.
 FT SIGNAL 1 18 POTENTIAL.
 FT CHAIN 19 1456 MACROPHAGE MANNOSE RECEPTOR.
 SQ SEQUENCE 1456 AA; 165065 MW; 4EBD3F1B8619A594 CRC64;

 Query Match 8.9%; Score 178.5; DB 11; Length 1456;
 Best Local Similarity 25.9%; Pred No. 2.5e-07;
 Matches 53; Conservative 33; Mismatches 66; Indels 53; Gaps 8;
 QY 42 YKVIYFHDTSRLNFEAKACRRGGQVLVSEDEQKLEKFTENLLPSDGDVWIGLR 101
 DB 807 YKDYQYFSEKETWDAARRFCNKGFDLTIKSESEKFLWKYI-NKNGGQSPYFGLM 865
 QY 102 RREKQSNSTACQDLYAWTDGSIQFRNWDVPSGCS--EVCVVMYHQPAPAGIGGYP 159
 DB 866 ISMDKK-----FIWMDGSKVDFVWATGEPFNADDENCVTNY-----TNSGF----- 908
 QY 160 MFQWNDRCNKNFKICK---YSDKPAVPSPAEGETELTTPVLPETQEQ----- 208
 DB 909 ---WINDINGVFNPFICQHRNSSINATAMP-----TTPTPGCKEGWHLYKNK 954
 QY 209 -----EDAKTKESREALNL 225
 DB 955 CPKIFGFANEKKSQWDAQACKGL 979

RESULT 13

Q25199 Q25199 PRELIMINARY; PRT; 1348 AA.
 ID Q25199;
 AC Q25199;
 DT 01-NOV-1996 (T-EMBLrel. 01, Created)
 DT 01-MAY-1999 (T-EMBLrel. 10, Last sequence update)
 DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
 DE Tyrosine kinase receptor.
 OS Hydra attenuata (Hydra) (Hydra vulgaris).
 OC Eukaryota; Metazoa; Cnidaria; Hydrozoa; Hydroida; Anthomedusae;
 OC Hydridae; Hydra.
 OX NCBI_TaxID=6087;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=irvine;
 RX MEDLINE=20209407; PubMed=10744720;
 RA Reidling J.C., Miller M.A., Steele R.E.;
 RT "Sweet Tooth, a Novel Receptor Protein-tyrosine Kinase with C-type
 Lectin-like Extracellular Domains.";
 RL J. Biol. Chem. 275:10323-10330 (2000).
 DR EMBL; L22612; AAA29218.2;
 DR HSP; P11362; IFGK.
 DR GO; GO:0005524; F:ATP binding; IEA.
 DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
 DR GO; GO:0004872; F:receptor activity; IEA.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR GO; GO:0016740; F:transferase activity; IEA.
 DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR InterPro; IPR003990; Pancreatin.ac.
 DR InterPro; IPR000719; Prot_kinase.
 DR InterPro; IPR001245; Tyr_kinase.
 DR InterPro; IPR008266; Tyr_kinase_AS.
 DR Pfam; PF00059; lectin_c; 4.
 DR Pfam; PF00059; Pkinase; 1.
 DR PRINTS; PR01504; PNCREATINAP.
 DR PRODOM; PD000001; Prot_kinase; 2.
 DR SMART; SM00034; CLECT; 4.
 DR SMART; SM00219; Tyrc; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 2.
 DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 4.
 DR PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.
 DR PROSITE; PS00011; PROTEIN_KINASE_DOM; 1.
 DR PROSITE; PS00109; PROTEIN_KINASE_TYR; 1.
 KW ATP-binding; Kinase; Receptor; Transferase; Tyrosine-protein kinase.
 FT SIGNAL 1 18 POTENTIAL.
 FT CHAIN 19 1456 MACROPHAGE MANNOSE RECEPTOR.
 SQ SEQUENCE 1348 AA; 156916 MW; 77D2122093227PBF CRC64;

 Query Match 8.9%; Score 177.5; DB 5; Length 1348;
 Best Local Similarity 28.0%; Pred No. 2.8e-07;
 Matches 47; Conservative 32; Mismatches 46; Indels 43; Gaps 8;
 QY 27 LSQPPVC--RGGTQREPC-----YKVIYFHDTSRLNFEAKACRRGGQVLVSEDE 78
 DB 412 LSHRFCKVKRATNEYCAEGWTSYRYCYFYVIEPDEFKFSFSSCONICGNLLSIENQEE 471
 QY 79 QKLEKFTENLLPSDGDVWIGLR-----RREKQSNSTACQDLYAWTDGSIQFRNWD 131
 DB 472 ---NRFIENDLIKNDKYWGLNKNWLYLKNKR-----FEWSDNTYTOFFNWI 518
 QY 132 VDEP--SCGSEVCVMYHQPAPAGIGGYPFQWMDRCNKNFKICK 177
 DB 519 TNQPDNNGNGESCVEVNYN-----GWSDECKVLNGFICK 553

RESULT 14

Q9Y5P9 Q9Y5P9 PRELIMINARY; PRT; 1479 AA.
 ID Q9Y5P9;
 AC Q9Y5P9;
 DT 01-NOV-1999 (T-EMBLrel. 12, Created)
 DT 01-NOV-1999 (T-EMBLrel. 12, Last sequence update)
 DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)


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DE Endocytic receptor Endol80.
GN Endol80.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN (1)
RP SEQUENCE FROM N.A.
RX MEDLINE=20148849; PubMed=10683150;
RA Sheikh H., Yarwood H., Ashworth A., Isacke C.;
RT "Endol80, an endocytic recycling glycoprotein related to the
RT macrophage mannose receptor is expressed on fibroblasts, endothelial
RT cells and macrophages and functions as a lectin receptor.";
RL J. Cell Sci. 113:1021-1032(2000).
DR EMBL; AF134838; AAD30280.1; -.
DR HSSP; P02751; 2FN2.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; P:transporter activity; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR005666; Lipoclin_cytFABP.
DR InterPro; IPR008997; RicinB_Like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR PROSITE; PS00041; C_TYPE_LECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS0231; RICIN_B_LECTIN; 1.
DR Receptor.
SQ SEQUENCE 1479 AA; 166669 MW; 9F4BAF355F036FCE CRC64;

Query Match 8.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 3.9e-07;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

Qy 28 SQPVCRCGTQPCYKVIYFHDTSRLNPFEEAKACRRDGGQLVGSIESEDEQKLEKIE 87
Db 385 SWQPF-----QGHCVRL-----QAEKRSWQESKACLRGGDLVSIHSMAELEFITKQIK 434

Qy 88 NLLPSDGFVIGLRREEKQSNSTACQDLYAWTDGSIQFRNWNVYDEPS---CGSEVCVV 144
Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSDGLSVFTWHPPFPNPNFRDLSLEDCVT 483

Qy 145 MYHQPSAPAGIGGYPWFQWDDRCNMKNFNICKYDEKPAVPSRAEG 192
Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGAEEHDHG 520

RESULT 15
QUBGO PRELIMINARY; PRT; 1479 AA.
AC QUBGO.
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Urokinase receptor-associated protein UPARAP.
GN KIAA0709.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN (1)
RP SEQUENCE FROM N.A.
RA Behrendt N., Jensen O.N., Engelholm L.H., Mortz E., Mann M., Dano K.;

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"A urokinase receptor-associated protein with specific collagen-
binding properties.";
RT Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
RN (2)
RP SEQUENCE FROM N.A.
RX TISSUE=Brain;
EX MEDLINE=98403880; PubMed=9734811;
RA Ishikawa K., Nagase T., Suyama M., Miyajima N., Tanaka A., Kotani H.,
RA Nomura N., Ohara O.;
RT "Prediction of the coding sequences of unidentified human genes. X.
RT The complete sequences of 100 new cDNA clones from brain which can
RT code for large proteins in vitro.";
RL DNA Res. 5:169-176(1998).
DR EMBL; AF107292; AAF14192.1; -.
DR EMBL; AB014609; BAA31684.1; -.
DR HSSP; P02751; 2FN2.
DR GO; GO:0004872; F:kinase activity; IEA.
DR GO; GO:0016301; F:receptor activity; IEA.
DR GO; GO:0004872; F:sugar binding; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; P:transporter activity; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR005666; Lipoclin_cytFABP.
DR InterPro; IPR008997; RicinB_Like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR PROSITE; PS00041; C_TYPE_LECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS0231; RICIN_B_LECTIN; 1.
DR Kinase; Receptor.
SQ SEQUENCE 1479 AA; 166654 MW; C7583EA78E2792D1 CRC64;

Query Match 8.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 3.9e-07;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

Qy 28 SQPVCRCGTQPCYKVIYFHDTSRLNPFEEAKACRRDGGQLVGSIESEDEQKLEKIE 87
Db 385 SWQPF-----QGHCVRL-----QAEKRSWQESKACLRGGDLVSIHSMAELEFITKQIK 434

Qy 88 NLLPSDGFVIGLRREEKQSNSTACQDLYAWTDGSIQFRNWNVYDEPS---CGSEVCVV 144
Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSDGLSVFTWHPPFPNPNFRDLSLEDCVT 483

Qy 145 MYHQPSAPAGIGGYPWFQWDDRCNMKNFNICKYDEKPAVPSRAEG 192
Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGAEEHDHG 520

Search completed: September 9, 2004, 22:22:34
Job time : 45 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:20:26 ; Search time 34 Seconds
(without alignments)

567.886 Million cell updates/sec

Title: US-09-887-855-2

Perfect score: 2000

Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQGRSKSGWVENIYGY 374

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A COMB.pgp.*
- 2: /cgn2_6/ptodata/2/iaa/5B COMB.pgp.*
- 3: /cgn2_6/ptodata/2/iaa/6A COMB.pgp.*
- 4: /cgn2_6/ptodata/2/iaa/6B COMB.pgp.*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pgp.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pgp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1990	99.5	374	4	US-09-489-847-166
2	1986	99.3	382	4	US-09-907-794A-137
3	1986	99.3	382	4	US-09-905-125A-137
4	1986	99.3	382	4	US-09-902-775A-137
5	1198.5	59.9	260	4	US-09-638-203-3
6	645	32.2	273	4	US-09-638-203-2
7	336	16.8	81	4	US-09-489-847-325
8	336	16.8	82	4	US-09-489-847-234
9	336	16.8	115	4	US-09-489-847-324
10	183	9.2	1456	3	US-09-976-594-168
11	178.5	8.9	1455	3	US-08-840-062-5
12	176.5	8.8	1479	3	US-08-840-062-4
13	174	8.7	1257	3	US-08-840-062-3
14	174	8.7	2409	6	US-08-340-428B-49
15	170.5	8.5	1479	3	US-08-840-062-2
16	154.5	7.7	652	2	US-08-751-305-2
17	152	7.6	912	5	PCT-US95-03747-2
18	151	7.5	197	4	US-09-602-877A-99
19	151	7.5	455	4	US-09-866-028-50
20	149	7.4	174	1	US-07-641-971B-1
21	149	7.4	174	1	US-07-781-248A-1
22	149	7.4	320	1	US-08-365-103B-10
23	149	7.4	321	1	US-08-365-103B-8
24	148.5	7.4	404	4	US-09-517-605-2
25	143.5	7.2	372	2	US-08-513-278-4
26	143.5	7.2	372	6	5514582-4
27	142	7.1	1487	3	US-08-840-062-7

28	141.5	7.1	125	3	US-08-722-126A-7	Sequence 7, Appli
29	141.5	7.1	125	5	PCT-US95-04256-7	Sequence 7, Appli
30	141.5	7.1	287	1	US-08-365-103B-4	Sequence 4, Appli
31	141.5	7.1	300	1	US-08-365-103B-6	Sequence 6, Appli
32	141.5	7.1	327	1	US-08-365-103B-2	Sequence 2, Appli
33	138.5	6.9	117	6	5514582-7	Patent No. 5514582
34	138.5	6.9	119	1	US-08-340-539A-12	Sequence 12, Appli
35	137.5	6.9	110	6	5514582-12	Patent No. 5514582
36	137.5	6.9	123	6	5514582-19	Patent No. 5514582
37	137.5	6.9	158	2	US-08-729-103-1	Sequence 1, Appli
38	137.5	6.9	158	2	US-08-468-413-2	Sequence 2, Appli
39	137.5	6.9	158	3	US-09-162-508-2	Sequence 2, Appli
40	137.5	6.9	158	5	PCT-US95-07169-2	Sequence 2, Appli
41	137.5	6.9	492	4	US-09-724-864-39	Sequence 39, Appli
42	135	6.8	238	3	US-09-111-470-8	Sequence 8, Appli
43	134.5	6.7	128	4	US-09-535-521-8	Sequence 11, Appli
44	134.5	6.7	139	4	US-09-535-521-11	Sequence 11, Appli
45	134.5	6.7	141	4	US-09-535-521-14	Sequence 14, Appli

ALIGNMENTS

RESULT 1

US-09-489-847-166
; Sequence 166, Application US/09489847
; Patent No. 8476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

US-09-489-847-166
Query Match 99.5%; Score 1990; DB 4; Length 374;
Best Local Similarity 99.5%; Pred. No. 3.9e-193;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVCRGGTQRCYKVIYFHDTSRRLNFEAK	60
OY	61	EACRRDGGQLVSIIESEDEQKLIIEKFIENLIPSDGDFWIGLRREKESNSTACQDLVWT	120
Db	61	EACRRDGGQLVSIIESEDEQKLIIEKFIENLIPSDGDFWIGLRREKESNSTACQDLVWT	120

QY 121 DGSISQFRNWWYDPSGSEVCVVMYHOPSAPAGIGGPTMFWQNDRCNMKNFKICKYSD 180
 Db 121 DGSISQFRNWWYDPSGSEVCVVMYHOPSAPAGIGGPTMFWQNDRCNMKNFKICKYSD 180
 QY 181 EKPAVPSREAEGEETELTTPVLPETQEDAKTKFKESREAAALNAYILIPSPILLILLIV 240
 Db 181 EKPAVPSREAEGEETELTTPVLPETQEDAKTKFKESREAAALNAYILIPSPILLILLIV 240
 QY 241 VITVVCWWVICRKRKEQDPSTKQHTTWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 Db 241 VITVVCWWVICRKRKEQDPSTKQHTTWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 QY 301 DLKNIISFRVCSGATPDDMSCDYDNVAVNPSSGFTVLVSVEGFTVNDIYEFSPDQGR 360
 Db 301 DLKNIISFRVCSGATPDDMSCDYDNVAVNPSSGFTVLVSVEGFTVNDIYEFSPDQGR 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 2

US-09-907-794A-137
 ; Sequence 137, Application US/09907794A

; Patent No. 6635468

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,794A

; CURRENT FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-907-794A-137

Query Match 99.3%; Score 1986; DB 4; Length 382;
 Best Local Similarity 97.9%; Pred. No. 1e-192; 0; Mismatches 8; Gaps 1;
 Matches 374; Conservative 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQPCYKVIYFHTSR 52
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDRGGQPVCRGGTQPCYKVIYFHTSR 60
 QY 53 RLNFEEAKACRDGGQLVSIIESEDKLIEFIENLPSDGDGFMGLRRREKOSNSTA 112
 Db 61 RLNFEEAKACRDGGQLVSIIESEDKLIEFIENLPSDGDGFMGLRRREKOSNSTA 120
 QY 113 CQDLYAWTDGSIISQFRNWWYDPSGSEVCVVMYHOPSAPAGIGGPTMFWQNDRCNMKN 172
 Db 121 CQDLYAWTDGSIISQFRNWWYDPSGSEVCVVMYHOPSAPAGIGGPTMFWQNDRCNMKN 180
 QY 173 NFICKYSDEKPAVPSREAEGEETELTTPVLPETQEDAKTKFKESREAAALNAYILIPS 232
 Db 181 NFICKYSDEKPAVPSREAEGEETELTTPVLPETQEDAKTKFKESREAAALNAYILIPS 240
 QY 233 IPLLILLVTTVVCWWVICRKRKEQDPSTKQHTTWPSPHQNSPDLEVYVIRKQSE 292
 Db 241 IPLLILLVTTVVCWWVICRKRKEQDPSTKQHTTWPSPHQNSPDLEVYVIRKQSE 300
 QY 293 ADLAETRPDLKNISFRVCSGATPDDMSCDYDNVAVNPSSGFTVLVSVEGFTVNDIY 352
 Db 301 ADLAETRPDLKNISFRVCSGATPDDMSCDYDNVAVNPSSGFTVLVSVEGFTVNDIY 360
 QY 353 FSPDQGRSKESGWENEIYGY 374
 Db 361 FSPDQGRSKESGWENEIYGY 382

RESULT 3
 US-09-905-125A-137
 ; Sequence 137, Application US/09905125A
 ; Patent No. 6664376
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.


```

; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-137

```

Query Match 99.3%; Score 1986; DB 4; Length 382;
 Best Local Similarity 97.9%; Pred. No. 18-192;
 Matches 374; Conservative 0; Mismatches 8; Indels 8; Gaps 1;

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QY 1 MRPGTALQAVLLAVLGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLGLRAATGRLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSR 60
QY 53 RNFEAKACRRDGGQGVLSIESDQKLIETKPIENLLPSDGDGFWIGLRREKQSNSTA 112
DB 61 RNFEAKACRRDGGQGVLSIESDQKLIETKPIENLLPSDGDGFWIGLRREKQSNSTA 120
QY 113 CQDLYAWTQGSISQFRNWTVDSPSCGSEVYVVMYHQPSPAGIGGPFQWMDRCNNKN 172
DB 121 CQDLYAWTQGSISQFRNWTVDSPSCGSEVYVVMYHQPSPAGIGGPFQWMDRCNNKN 180
QY 173 NFCKYDEKPAVPSREAGEETLTPVLPETQEDAKTFFKESREAAALNLAIVILIPS 232
DB 181 NFCKYDEKPAVPSREAGEETLTPVLPETQEDAKTFFKESREAAALNLAIVILIPS 240
QY 233 IPLLILLVTVVWVWVICRKRQPDSTTKQHTIMPSPHOGNSPDLEVYVNRKQSE 292
DB 241 IPLLILLVTVVWVWVICRKRQPDSTTKQHTIMPSPHOGNSPDLEVYVNRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDMSCDYDNMAVNPSESGFVTLVSVESGFVINDIYE 352
DB 301 ADLAETRPDLKNISFRVCSGEATPDMSCDYDNMAVNPSESGFVTLVSVESGFVINDIYE 360
QY 353 FSPDQWGRSKESGWENEIYGY 374
DB 361 FSPDQWGRSKESGWENEIYGY 382

```

RESULT 5
 US-09-638-203-3
 ; Sequence 3, Application US/09638203
 ; Patent No. 6602501
 ; GENERAL INFORMATION:
 ; APPLICANT: Daniel E.H. Afar
 ; APPLICANT: Rene S. Hubert
 ; APPLICANT: Ava Jakobovits
 ; APPLICANT: Arthur B. Raitano
 ; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
 ; FILE REFERENCE: 129.20USUI
 ; CURRENT FILING DATE: 2000-08-11
 ; PRIOR FILING DATE: 1999-08-12
 ; NUMBER OF SEQ ID NOS: 47

```

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-09-638-203-3

```

Query Match 59.9%; Score 1198.5; DB 4; Length 260;
 Best Local Similarity 84.2%; Pred. No. 3.8e-113;
 Matches 219; Conservative 17; Mismatches 23; Indels 1; Gaps 1;

```

QY 25 RLJSGQVPCRGGTQPCYKVIYFHDTSRRRLNFEAKACRRDGGQGVLSIESDEQKLIETK 84
DB 1 RLJSGQVPCRGGTQPCYKVIYFHDTSRRRLNFEAKACRRDGGQGVLSIESDEQKLIETK 60
QY 85 FIENLLPSDGDGFWIGLRREKQSNSTACODLYAWTQGSISQFRNWTVDSPSCGSEVYV 144
DB 61 FIENLLPSDGDGFWIGLRREKQSNSTACODLYAWTQGSISQFRNWTVDSPSCGSEVYV 120
QY 145 MYHQPSPAGIGGPFQWMDRCNNKNFICKYDEKPA-VPSREAGEETLTPVLP 203
DB 121 MYHQPSPAGIGGPFQWMDRCNNKNFICKYDEKPA-VPSREAGEETLTPVLP 180
QY 204 ETOQEDAKTFFKESREAAALNLAIVILIPSLILLVTVVWVWVICRKRQEQDPS 263
DB 181 ETOQEDAKTFFKESREAAALNLAIVILIPSLILLVTVVWVWVICRKRQEQDPS 240
QY 264 KKOHTIMPSPHOGNSPDLEV 283
DB 241 KKOHTIMPSPHOGNSPDLEV 260

```

RESULT 6

```

US-09-638-203-2
; Sequence 2, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:  

; APPLICANT: Daniel E.H. Afar  

; APPLICANT: Rene S. Hubert  

; APPLICANT: Ava Jakobovits  

; APPLICANT: Arthur B. Raitano  

; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE  

; FILE REFERENCE: 129.20USUI  

; CURRENT FILING DATE: 2000-08-11  

; PRIOR FILING DATE: 1999-08-12  

; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-638-203-2

```

Query Match 32.2%; Score 645; DB 4; Length 273;
 Best Local Similarity 48.4%; Pred. No. 5.1e-57;
 Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;

```

QY 10 VLLAVLLVGLRAATGRLSGQVPCRGGTQPCYKVIYFHDTSRRRLNFEAKACRRDGGQ 69
DB 8 LGLAALLCGHGAFCRRVWSQKVCFAFDKXHPCKMAYFHELSSRVSFQEARLACSEGGV 67
QY 70 LVSIIEDEQKLIETKPIENLLP-----SDGDFWIGLRREKQSNSTACODLYAWTQGS 124
DB 68 LLSLENEAEQKLIETKPIENLLP-----SDGDFWIGLRREKQSNSTACODLYAWTQGS 126
QY 125 SQFRNWTVDSPSCGSEVYVVMYHQPSPAGIGGPFQWMDRCNNKNFICKYDE-KP 183
DB 127 SQFRNWTVDSPSCGSEVYVVMYHQPSPAGIGGPFQWMDRCNNKNFICKYDE-KP 186
QY 184 AVPSREAGEETLTPVLPETQEDAKTFFKESREAAAL-NLAIVILIPSLILLVTV 241

```

US-09-638-203-3
 ; Sequence 3, Application US/09638203
 ; Patent No. 6602501
 ; GENERAL INFORMATION:
 ; APPLICANT: Daniel E.H. Afar
 ; APPLICANT: Rene S. Hubert
 ; APPLICANT: Ava Jakobovits
 ; APPLICANT: Arthur B. Raitano
 ; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
 ; FILE REFERENCE: 129.20USUI
 ; CURRENT FILING DATE: 2000-08-11
 ; PRIOR FILING DATE: 1999-08-12
 ; NUMBER OF SEQ ID NOS: 47

Db 187 TAPV-----EKPLTNQ--PGDTHQNV-----VTEAGIPNLIVYVPIPLLLLIIV 233
QY 242 TTVCWVWICRKRK-REQDPSTKXQHTIWPSPHQGNSPDLEV 283
Db 234 AFGTCGFQMLHKSCKGRTKTSN---QSTLWISKSTRKESGMEV 273

RESULT 7

US-09-489-847-325
; Sequence 325, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 325
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-325

Query Match 16.8%; Score 336; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 1.7e-26;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAK 60
QY 61 EACRR 65
Db 61 EACRR 65

RESULT 8

US-09-489-847-234
; Sequence 234, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06

; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 234
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (82)
; OTHER INFORMATION: Xaa equals stop translation
US-09-489-847-234

Query Match 16.8%; Score 336; DB 4; Length 82;
Best Local Similarity 100.0%; Pred. No. 1.7e-26;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAK 60
QY 61 EACRR 65
Db 61 EACRR 65

RESULT 9

US-09-489-847-324
; Sequence 324, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 324
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-324

Query Match 16.8%; Score 336; DB 4; Length 115;
Best Local Similarity 100.0%; Pred. No. 2.8e-26;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAK 60
Db 35 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAK 94
QY 61 EACRR 65
Db 95 EACRR 99

RESULT 10

US-09-976-594-168
; Sequence 168, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:

```

; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 168
; LENGTH: 1456
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1674368CD1
; US-09-976-594-168

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```

Query Match      9.2%; Score 183; DB 4; Length 1456;
Best Local Similarity 25.1%; Pred. No. 4.4e-09;
Matches 53; Conservative 38; Mismatches 66; Indels 54; Gaps 8;

QY 42 YKVIYFHTSRLNFEAEACRRDGGQLVSIESTSEDEQKLEKFTENLLPSDGFWIGLR 101
Db 807 YKDYQYFSEKETMDNARAFCKRFGDLVSIQSESEKFLWKYV-NRNDQASAYFIGLL 865

QY 102 RREEKOSNSTACQDLYAWTDGSIQFRNMYVDEPSCGS--EVCVVMYHQPAPAGIGGPY 159
Db 866 ISLDKK-----FAMWDSKVDVSWATGEPNFANDENCVTMY-----SNSGF---- 908

QY 160 MFQWDDRCNMKNFICKYSDK-----PAVPREAEGETELTTPVLPEETQE----- 208
Db 909 ---WNDINGYNNFICQHNSSINATWMP-----TMPSPVSGCKEGWNFYSN 954

QY 209 -----EDAKTKFKESREAAALNAYILI 230
Db 955 KCFKIFGFMEERKNQWQKARKICIGGGNLV 985

```

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RESULT 11
US-08-840-062-5
; Sequence 5, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Winpatin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: P1019R1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3216
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168

```

```

; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1455 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; US-08-840-062-5

Query Match      8.9%; Score 178.5; DB 3; Length 1455;
Best Local Similarity 25.9%; Pred. No. 1.3e-08;
Matches 53; Conservative 33; Mismatches 66; Indels 53; Gaps 8;

QY 42 YKVIYFHTSRLNFEAEACRRDGGQLVSIESTSEDEQKLEKFTENLLPSDGFWIGLR 101
Db 806 YKDYQYFSEKETMDNARAFCKRFGDLATIKSESEKFLWKYI-NKNGGGSYPFIGML 864

QY 102 RREEKOSNSTACQDLYAWTDGSIQFRNMYVDEPSCGS--EVCVVMYHQPAPAGIGGPY 159
Db 865 ISMDKK-----FIWMDGSKVDVFWATGEPNFANDENCVTMY-----TNSGF---- 907

QY 160 MFQWDDRCNMKNFICKYSDK-----PAVPREAEGETELTTPVLPEETQE----- 208
Db 908 ---WNDINGYNNFICQHNSSINATWMP-----TPTTPGCKEGWHLKYNK 953

QY 209 -----EDAKTKFKESREAAALNL 225
Db 954 CFXIFGFANEKKSQWODARACKGL 978

```

```

RESULT 12
US-08-840-062-4
; Sequence 4, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Winpatin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: P1019R1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3216
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1479 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; US-08-840-062-4

```

```

Query Match      8.8%; Score 176.5; DB 3; Length 1479;
Best Local Similarity 30.4%; Pred. No. 2.1e-08;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

QY 28 SGQVCRGGTQPCYKVIYFHTSRLNFEAEACRRDGGQLVSIESTSEDEQKLEKFTIE 87

```


Db 385 SWQPF-----QHCYKRL-----QAEKRSWQESKACLRGGDLVSIHSMAELEFTHQIK 434
QY 88 NLPSDGFWMGLRRREKQSNSTACQDLYAWTSGSISQFRNYYVDEPS---CGSEVCVW 144
Db 435 QEVE---ELWIGL-----NDLKLQMNFEKSDGLSVFTHTWHPFERNFRDLSLEDCVT 483
QY 145 MYHQSAPAGIGPYMFQWDRCKNKNFKICKYDEKPAVPSRAEG 192
Db 484 IW-----GPEG-----RWNDSPCNQSUPSICKAGQLSQGAEEHDHG 520

RESULT 13
US-08-340-428B-49
; Sequence 49, Application US/08340428B
; Patent No. 5648465
; GENERAL INFORMATION:
; APPLICANT: MARGOLIS, Richard U.
; APPLICANT: RAUCH, Uwe
; APPLICANT: MARGOLIS, Renee K.
; TITLE OF INVENTION: CLONING, EXPRESSION AND USES FOR A
; TITLE OF INVENTION: NEUROCAN AS A CHONDROITIN SULFATE PROTEOGLYCAN
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Browdy and Neimark
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,428B
; FILING DATE: 14 No. 5648465ember 1994
; CLASSIFICATION: 514
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: 07/922 911
; FILING DATE: 03 August 1992
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Browdy, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: Margolis-1A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1257 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-340-428B-49

Query Match 8.7%; Score 174; DB 1; Length 1257;
Best Local Similarity 30.8%; Pred No. 2, 9e-08;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;

QY 38 QPCYKVIYFHTSRRLNFEAKACRRDGGQLVSIKFKFIENLLPSDGF 97
Db 1037 QCHCYR--YF---AHRRAWEAERDCRRRAGHLTSVHSPHEKFINSF-----GHENSW 1085
QY 98 IGLRREKQSNSTACQDLYAWTSGSISQFRNYYVDEPS---CGSEVCVWYHPSAPAG 154
Db 1086 IGLNDRTVRD-----FQNDITGLQYENWREKQPDNFFAGDCVVMVAHENG--- 1134
QY 155 IGGPYMFQWDRCKNKNFKICK 177

Db 1135 -----RWNDVPCNPNLPYVCK 1150

RESULT 14
5180808-2
; Patent No. 5180808
; APPLICANT: RUOSLAHTI, ERKKI I.
; TITLE OF INVENTION: VERSICAN CORE PROTEIN, NUCLEIC ACID
; SEQUENCES ENCODING THE SAME, NUCLEIC ACID PROBES, ANTI-VERSICAN
; ANTIBODIES, AND METHODS OF DETECTING THE SAME
; NUMBER OF SEQUENCES: 4
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/441,179
; FILING DATE: 27-NOV-1989
; SEQ ID NO:2:
; LENGTH: 2409
5180808-2

Query Match 8.7%; Score 174; DB 6; Length 2409;
Best Local Similarity 28.5%; Pred No. 7, 8e-08;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QPCYKVIYFHTSRRLNFEAKACRRDGGQLVSIKFKFIENLLPSDGF- 96
Db 2190 QGCYK--YF---AHRRTWDAERECRLQGAHLTSLSHSEQMFVNRV-----GHDIQ 2237
QY 97 WIGLRREKQSNSTACQDLYAWTSGSISQFRNYYVDEP-----SCGSEVCVWYHPSAP 152
Db 2238 WIGL-----NDKMFEDHFRWTDGTLQYENWRENQPDSPFSAGEDCVVIWHENG-- 2287

QY 153 AGIGPYMFQWDRCKNKNFKICKYS-----DEKPAVPSREAREGE 193
Db 2288 -----QWNDVPCNHYLTYCKGTACGQPPVVENAKTGK 2323

RESULT 15
US-08-840-062-2
; Sequence 2, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Winpatin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: P1019R1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3216
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1479 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear

US-08-840-062-2

Query Match 8.5%; Score 170.5; DB 3; Length 1479;
Best Local Similarity 31.4%; Pred. No. 8.4e-08;
Matches 48; Conservative 22; Mismatches 46; Indels 35; Gaps 7;
QY 28 SQQPVCRGQTPCYKVIFYHDTSRRLNFEPEAKEACRRDGGQLVSI ESEDEQKLI EKFIE 87
Db 384 SQQPF-----QGHCVRL-----QAEKRSWQESKRA CLRG GGLLSIHSMAELEFITKQIK 433
QY 88 NLLPSGDGFWIGLRREERKQSNSTACQDLYATWDGSI SQFRNYYVDEPS---CGSEVCVV 144
Db 434 QEVE---ELWIGL-----NDLKLQMNFEWSGSLVSFTHHHPFEPNFRDSLEDCVT 482
QY 145 MYHQPSAPAGIGGYPYMFOWNDRCNMKNFNICK 177
Db 483 IW-----GPEG-----RWNDSPCQSLPSICK 504

Search completed: September 9, 2004, 22:23:40
Job time : 35 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:22:42 ; Search time 130 Seconds
(without alignments)
922.599 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGSKSGWVENIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1335176 seqs, 320689617 residues

Total number of hits satisfying chosen parameters: 1335176

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:**

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
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- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
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- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2000	100.0	374	14	US-10-149-819-15
3	2000	100.0	374	15	US-10-094-749-2090
4	2000	100.0	374	15	US-10-264-237-2579
5	2000	100.0	374	16	US-10-648-593-148
6	1996	99.8	374	15	US-10-094-749-2142
7	1990	99.5	374	12	US-10-351-334-166
8	1986	99.3	382	9	US-09-909-320-137
9	1986	99.3	382	9	US-09-909-088B-137
10	1986	99.3	382	9	US-09-905-291A-137
11	1986	99.3	382	9	US-09-902-853-137
12	1986	99.3	382	9	US-09-907-824-137
13	1986	99.3	382	9	US-09-907-841-137
14	1986	99.3	382	10	US-09-904-011-137
15	1986	99.3	382	10	US-09-906-742-137

16	1986	99.3	382	10	US-09-906-838-137	Sequence 137, App
17	1986	99.3	382	10	US-09-907-613-137	Sequence 137, App
18	1986	99.3	382	10	US-09-907-942-137	Sequence 137, App
19	1986	99.3	382	10	US-09-904-859-137	Sequence 137, App
20	1986	99.3	382	10	US-09-909-204-137	Sequence 137, App
21	1986	99.3	382	10	US-09-904-820-137	Sequence 137, App
22	1986	99.3	382	10	US-09-904-786-137	Sequence 137, App
23	1986	99.3	382	10	US-09-906-646-137	Sequence 137, App
24	1986	99.3	382	10	US-09-906-700-137	Sequence 137, App
25	1986	99.3	382	10	US-09-903-788-137	Sequence 137, App
26	1986	99.3	382	10	US-09-903-903-137	Sequence 137, App
27	1986	99.3	382	10	US-09-903-749A-137	Sequence 137, App
28	1986	99.3	382	10	US-09-904-119-137	Sequence 137, App
29	1986	99.3	382	10	US-09-904-956-137	Sequence 137, App
30	1986	99.3	382	10	US-09-902-736-137	Sequence 137, App
31	1986	99.3	382	10	US-09-907-794-137	Sequence 137, App
32	1986	99.3	382	10	US-09-903-943-137	Sequence 137, App
33	1986	99.3	382	10	US-09-904-462-137	Sequence 137, App
34	1986	99.3	382	10	US-09-907-925-137	Sequence 137, App
35	1986	99.3	382	10	US-09-902-692-137	Sequence 137, App
36	1986	99.3	382	10	US-09-903-520-137	Sequence 137, App
37	1986	99.3	382	10	US-09-905-056-137	Sequence 137, App
38	1986	99.3	382	10	US-09-909-064-137	Sequence 137, App
39	1986	99.3	382	10	US-09-904-553-137	Sequence 137, App
40	1986	99.3	382	10	US-09-905-381-137	Sequence 137, App
41	1986	99.3	382	10	US-09-905-088-137	Sequence 137, App
42	1986	99.3	382	10	US-09-907-575-137	Sequence 137, App
43	1986	99.3	382	10	US-09-905-075-137	Sequence 137, App
44	1986	99.3	382	10	US-09-902-759-137	Sequence 137, App
45	1986	99.3	382	10	US-09-902-634-137	Sequence 137, App

ALIGNMENTS

RESULT 1
US-09-887-855-2
; Sequence 2, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

Query Match	100.0%;	Score 2000;	DB 9;	Length 374;
Best Local Similarity	100.0%;	Pred. No. 2.8e-179;		
Matches	374;	Conservative	0;	Mismatches
			0;	Indels
				Gaps
				0;
Qy	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQFVCRGGTQRCYKVIYFHDTSRLNFEEAK	60	
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQFVCRGGTQRCYKVIYFHDTSRLNFEEAK	60	
Qy	61	EACRDCGQLVSTESDEQKLEKFIENLLPSDGFWGLRRRREKOSNSTACQDLYAWT	120	
Db	61	EACRDCGQLVSTESDEQKLEKFIENLLPSDGFWGLRRRREKOSNSTACQDLYAWT	120	
Qy	121	DGSISQFRNXYVDEPSCGSEVVMYHQPAPAGIGYPMFQWNDRCNMKNFICKYSD	180	
Db	121	DGSISQFRNXYVDEPSCGSEVVMYHQPAPAGIGYPMFQWNDRCNMKNFICKYSD	180	
Qy	181	EKPAVPSREAREGETELTTPVLEETOEDAKTKFKESRAALNLAIVLIPSPILLV	240	
Db	181	EKPAVPSREAREGETELTTPVLEETOEDAKTKFKESRAALNLAIVLIPSPILLV	240	

QY 241 VTTVCWVICRKRKEQDPSTKKOHTIWPSPHOGNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVCWVICRKRKEQDPSTKKOHTIWPSPHOGNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360
QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 2
US-10-149-819-15
; Sequence 15, Application US/10149819
; Publication No. US2003004913A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: US/10/149,819
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US2003004913A1 3143411CD1
US-10-149-819-15

Query Match 100.0%; Score 2000; DB 14; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.8e-179;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGQTPCQVYFHDTSRLNFEAK 60
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QY 61 EACRRDGGVLVSIESEDEQKLEKFTENLLPSDGFWIGLRREBKQSNSTACQDLYAWT 120
DB 61 EACRRDGGVLVSIESEDEQKLEKFTENLLPSDGFWIGLRREBKQSNSTACQDLYAWT 120
QY 121 DGSISQFRWYVDEPSCGSEVCVMYHQPASAPAGIGGPMFQWDDRCNMKNFICKYSD 180
DB 121 DGSISQFRWYVDEPSCGSEVCVMYHQPASAPAGIGGPMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAPVSRBAEGEETELTPVLPEETQEDAKKTFKESREAAALNAYILIPISILLLLV 240
DB 181 EKPAPVSRBAEGEETELTPVLPEETQEDAKKTFKESREAAALNAYILIPISILLLLV 240
QY 241 VTTVCWVICRKRKEQDPSTKKOHTIWPSPHOGNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVCWVICRKRKEQDPSTKKOHTIWPSPHOGNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360

DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360
QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 3
US-10-094-749-2090
; Sequence 2090, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2090
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2090

Query Match 100.0%; Score 2000; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.8e-179;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGQTPCQVYFHDTSRLNFEAK 60
QY 61 EACRRDGGVLVSIESEDEQKLEKFTENLLPSDGFWIGLRREBKQSNSTACQDLYAWT 120
DB 61 EACRRDGGVLVSIESEDEQKLEKFTENLLPSDGFWIGLRREBKQSNSTACQDLYAWT 120
QY 121 DGSISQFRWYVDEPSCGSEVCVMYHQPASAPAGIGGPMFQWDDRCNMKNFICKYSD 180
DB 121 DGSISQFRWYVDEPSCGSEVCVMYHQPASAPAGIGGPMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAPVSRBAEGEETELTPVLPEETQEDAKKTFKESREAAALNAYILIPISILLLLV 240
DB 181 EKPAPVSRBAEGEETELTPVLPEETQEDAKKTFKESREAAALNAYILIPISILLLLV 240
QY 241 VTTVCWVICRKRKEQDPSTKKOHTIWPSPHOGNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVCWVICRKRKEQDPSTKKOHTIWPSPHOGNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR 360

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QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 4
US-10-264-237-2579
; Sequence 2579, Application US/10264237
; Publication No. US2004000941A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P431P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-08-19
; SOFTWARE: Patent In Ver. 3.1
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-237-2579

Query Match 100.0%; Score 2000; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.8e-179;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVRCGGTQPCVKYVFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
DB 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
DB 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
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DB 181 EAPVPSREAGEETELTPVLPEETOEDAKTKFESREAAINLAYILIPISPLLLLV 240
QY 241 VTTVVCWWICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVVCWWICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNSIFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTDIYFSPDQMR 360
DB 301 DLKNSIFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTDIYFSPDQMR 360
QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 5
US-10-648-593-148
; Sequence 148, Application US/10648593
; Publication No. US20040106132A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 NP
; CURRENT APPLICATION NUMBER: US/10/648,593
; CURRENT FILING DATE: 2003-08-26

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; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-648-593-148

Query Match 100.0%; Score 2000; DB 16; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.8e-179;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVRCGGTQPCVKYVFHDTSRRLNFEAK 60
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVRCGGTQPCVKYVFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
DB 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
DB 121 DGSISQFRNYYVDEPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
QY 181 EAPVPSREAGEETELTPVLPEETOEDAKTKFESREAAINLAYILIPISPLLLLV 240
DB 181 EAPVPSREAGEETELTPVLPEETOEDAKTKFESREAAINLAYILIPISPLLLLV 240
QY 241 VTTVVCWWICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVVCWWICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNSIFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTDIYFSPDQMR 360
DB 301 DLKNSIFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTDIYFSPDQMR 360
QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 6
US-10-094-749-2142
; Sequence 2142, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NACHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381

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; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match          99.8%; Score 1996; DB 15; Length 374;
Best Local Similarity 99.7%; Pred. No. 6.8e-179;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCYKVYFHDTSRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCYKVYFHDTSRLNFEAK 60
QY 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNMYVDEPSCGSEVCMVYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNMYVDEPSCGSEVCMVYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAPVSRREAGEETELTTPVLPETQEDAKTKFKESREAAINLAYILIPISILLLV 240
Db 181 EKPAPVSRREAGEETELTTPVLPETQEDAKTKFKESREAAINLAYILIPISILLLV 240
QY 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
Db 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
QY 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTNDIYFSPDQMR 360
Db 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 7
US-10-351-334-166
; Sequence 166, Application US/10351334
; Publication No. US20040034196A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; PRIOR FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT

; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-351-334-166

Query Match          99.5%; Score 1990; DB 12; Length 374;
Best Local Similarity 99.5%; Pred. No. 2.5e-178;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCYKVYFHDTSRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCYKVYFHDTSRLNFEAK 60
QY 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNMYVDEPSCGSEVCMVYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNMYVDEPSCGSEVCMVYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAPVSRREAGEETELTTPVLPETQEDAKTKFKESREAAINLAYILIPISILLLV 240
Db 181 EKPAPVSRREAGEETELTTPVLPETQEDAKTKFKESREAAINLAYILIPISILLLV 240
QY 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
Db 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
QY 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTNDIYFSPDQMR 360
Db 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 8
US-09-909-320-137
; Sequence 137, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```



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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-137

Query Match          99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSR 60
QY 53 RNFEEAKEACRRDGGQGLVSIIESEDEQKLIETKFIENLPSDGFWMGLRRREEKQSNSTA 112
DB 61 RNFEEAKEACRRDGGQGLVSIIESEDEQKLIETKFIENLPSDGFWMGLRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSIQSFNWNVYDPEPCGSEVVCVVMYHQPSPAGIGGYPYFQWDDRCNNKN 172
DB 121 CQDLYAWTDGSIQSFNWNVYDPEPCGSEVVCVVMYHQPSPAGIGGYPYFQWDDRCNNKN 180
QY 173 NFKICKYSDKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNLAIVILIPS 232
DB 181 NFKICKYSDKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNLAIVILIPS 240
QY 233 IPLLILLVVTTCVVMWICRKRREQDPSTKKQHTIWPSPHQGNSPDLVNVNIRKQSE 292
DB 241 IPLLILLVVTTCVVMWICRKRREQDPSTKKQHTIWPSPHQGNSPDLVNVNIRKQSE 300
QY 293 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
DB 301 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360

RESULT 10
US-09-905-291A-137
; Sequence 137, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
```

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; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-291A-137

Query Match          99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSR 60
QY 53 RNFEEAKEACRRDGGQGLVSIIESEDEQKLIETKFIENLPSDGFWMGLRRREEKQSNSTA 112
DB 61 RNFEEAKEACRRDGGQGLVSIIESEDEQKLIETKFIENLPSDGFWMGLRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSIQSFNWNVYDPEPCGSEVVCVVMYHQPSPAGIGGYPYFQWDDRCNNKN 172
DB 121 CQDLYAWTDGSIQSFNWNVYDPEPCGSEVVCVVMYHQPSPAGIGGYPYFQWDDRCNNKN 180
QY 173 NFKICKYSDKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNLAIVILIPS 232
DB 181 NFKICKYSDKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNLAIVILIPS 240
QY 233 IPLLILLVVTTCVVMWICRKRREQDPSTKKQHTIWPSPHQGNSPDLVNVNIRKQSE 292
DB 241 IPLLILLVVTTCVVMWICRKRREQDPSTKKQHTIWPSPHQGNSPDLVNVNIRKQSE 300
QY 293 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
DB 301 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360
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QY 353 FSPDQMGSRKSGWVNEIYGY 374
 Db 361 FSPDQMGSRKSGWVNEIYGY 382

RESULT 11

US-09-902-853-137
 ; Sequence 137, Application US/09902853
 ; Publication No. US20020192659A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerriksen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Hillan, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/902,853
 ; CURRENT FILING DATE: 2001-07-10
 ; PRIOR APPLICATION NUMBER: US/09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-09-902-853-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
 Best Local Similarity 97.9%; Pred. No. 6.1e-178;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCVKIYFHDTSR	52
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQPVCRGGTQPCVKIYFHDTSR	60
QY	53	RLNFEAKACRRDGGQVLSIESDEQKLIETPIENLPSDGFDTGLRRREKQSNSTA	112
Db	61	RLNFEAKACRRDGGQVLSIESDEQKLIETPIENLPSDGFDTGLRRREKQSNSTA	120
QY	113	QDLVYATDGSISQFRNWNVDEPSCGSEVVMYHOPSPAPAGIGGPFYMFQWDDRCNMKN	172
Db	121	QDLVYATDGSISQFRNWNVDEPSCGSEVVMYHOPSPAPAGIGGPFYMFQWDDRCNMKN	180
QY	173	NFICKYSDEKPAVPSREAGEETEELTPVLPEETQEDAKTFKESREALNLAYLILPS	232
Db	181	NFICKYSDEKPAVPSREAGEETEELTPVLPEETQEDAKTFKESREALNLAYLILPS	240
QY	233	IPILLILLVTTVVCWVICRKRKEQDPSTKKQHTIMPSPHCGNSPDLEVVNVIRKQSE	292
Db	241	IPILLILLVTTVVCWVICRKRKEQDPSTKKQHTIMPSPHCGNSPDLEVVNVIRKQSE	300
QY	293	ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFVTNDIYE	352
Db	301	ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFVTNDIYE	360
QY	353	FSPDQMGSRKSGWVNEIYGY 374	
Db	361	FSPDQMGSRKSGWVNEIYGY 382	

RESULT 12

US-09-907-824-137
 ; Sequence 137, Application US/09907824
 ; Publication No. US20020197671A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerriksen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Hillan, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/907,824
 ; CURRENT FILING DATE: 2003-07-17
 ; PRIOR APPLICATION NUMBER: 09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-907-824-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
 Best Local Similarity 97.9%; Pred. No. 6.1e-178;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY	1	MRPGTALQAVLLVGLRAATGRLLS-----GQVCSGGTQPCYKVIYFHDTSR	52
DB	1	MRPGTALQAVLLVGLRAATGRLLSASDLDRGGQPCVCRGGTQPCYKVIYFHDTSR	60
QY	53	RLNFEAKEACRRDGGQLVSEDEQKLIKFIEENLLPSDGFWGLRREERQSNSTA	112
DB	61	RLNFEAKEACRRDGGQLVSEDEQKLIKFIEENLLPSDGFWGLRREERQSNSTA	120
QY	113	CODLAWTDGTSIFRNWYVDFPSGSEVVMYHQPAPAGIGPYMFQWDRDRCNMKN	172
DB	121	CODLAWTDGTSIFRNWYVDFPSGSEVVMYHQPAPAGIGPYMFQWDRDRCNMKN	180
QY	173	NFICKYSDEKPAVPREAREGETELTTPVLPETQEEDEAKTKFKESREAAALNLAIVLIPS	232
DB	181	NFICKYSDEKPAVPREAREGETELTTPVLPETQEEDEAKTKFKESREAAALNLAIVLIPS	240
QY	233	IFLLLLVVTTVVWVWICRKRKRPDPSTKKQHTIWPSPHQNSPDLVYVIRKQSE	292
DB	241	IFLLLLVVTTVVWVWICRKRKRPDPSTKKQHTIWPSPHQNSPDLVYVIRKQSE	300
QY	293	ADLAETRPDLKNI-SFRVCSGEATPDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE	352

DB 301 ADLAETRPDLKNI-SFRVCSGEATPDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE 360
 QY 353 FSPDQGRSKESGWENEIYGY 374
 DB 361 FSPDQGRSKESGWENEIYGY 382

RESULT 13
 US-09-907-841-137
 ; Sequence 137, Application US/09907841
 ; Publication No. US20020198366A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/907,841
 ; CURRENT FILING DATE: 2001-11-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-907-841-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
 Best Local Similarity 97.9%; Pred. No. 6.1e-178;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQGVLSIESEDEQKLIKFTIENLLPSDGDWIGLRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQGVLSIESEDEQKLIKFTIENLLPSDGDWIGLRREEKQSNSTA 120
QY 113 CODLYAWTDGSIQFRNNWYVDEPSCGSEVCVMVYHQPAPAGIGPPYMFQWDDRCNMKN 172
Db 121 CODLYAWTDGSIQFRNNWYVDEPSCGSEVCVMVYHQPAPAGIGPPYMFQWDDRCNMKN 180
QY 173 NFICKYSEKPAVPSREAGEETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSEKPAVPSREAGEETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLILLVVTVCVWVWICRKRREOPDPSTKKOHTIWPSPHQGNSPDEVYVIRKQSE 292
Db 241 IPLLILLVVTVCVWVWICRKRREOPDPSTKKOHTIWPSPHQGNSPDEVYVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE 360
QY 353 FSPDQMGSRKESGWVENEIYGY 374
Db 361 FSPDQMGSRKESGWVENEIYGY 382

RESULT 14

US-09-904-011-137
; Sequence 137, Application US/09904011
; Publication No. US2003000350A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10456-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-011-137

Query Match 99.3%; Score 1986; DB 10; Length 382;

Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSR 60
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QY 173 NFICKYSEKPAVPSREAGEETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
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QY 233 IPLLILLVVTVCVWVWICRKRREOPDPSTKKOHTIWPSPHQGNSPDEVYVIRKQSE 292
Db 241 IPLLILLVVTVCVWVWICRKRREOPDPSTKKOHTIWPSPHQGNSPDEVYVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE 360
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RESULT 15

US-09-906-742-137
; Sequence 137, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,742
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
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PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-906-742-137

Query Match 99.3%; Score 1986; DB 10; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
Qy 1 MRGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCVKVIYFHDTR 52
Db 1 MRGTALQAVLLAVLLVGLRAATGRLLSASDLDLGGQPVCRGGTQPCVKVIYFHDTR 60
Qy 53 RLMFEEAKEACRRDGGQGVLSIESEDEQKLIETIENLLPSDGDGFWIGLRRREKQSNSTA 112
Db 61 RLMFEEAKEACRRDGGQGVLSIESEDEQKLIETIENLLPSDGDGFWIGLRRREKQSNSTA 120
Qy 113 QDLIYAWTDGSIISQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGYPYMFQWDDRCNMKN 172
Db 121 QDLIYAWTDGSIISQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGYPYMFQWDDRCNMKN 180
Qy 173 NFICKYSDEKPAVPSREAEGEETELTPVLPEETOEDAKTFKESREAAALNAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGEETELTPVLPEETOEDAKTFKESREAAALNAYILIPS 240
Qy 233 IPLLILLVTTVVCWVWICRKRREQDPSTKKQHTIWFSPHOGNSPDLEVINVRKQSE 292
Db 241 IPLLILLVTTVVCWVWICRKRREQDPSTKKQHTIWFSPHOGNSPDLEVINVRKQSE 300
Qy 293 ADLAETRPDLKNTSFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFVNDIYE 352
Db 301 ADLAETRPDLKNTSFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFVNDIYE 360
Qy 353 FSPDQGRSKESGWENEIYGY 374
Db 361 FSPDQGRSKESGWENEIYGY 382

Search completed: September 9, 2004, 22:34:10
Job time : 133 secs

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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:21:36 ; Search time 417 Seconds
(without alignments)
875,405 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQVLLAVLLVGLR.....PDQGRSKESGWENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 6019581 seqs, 976053577 residues

Total number of hits satisfying chosen parameters: 6019581

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents_AA_Main:*

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30:	/cgn2_6/ptodata/2/paa/US34 COMB.pcp.*
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32:	/cgn2_6/ptodata/2/paa/US36 COMB.pcp.*
33:	/cgn2_6/ptodata/2/paa/US37 COMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description

1	2000	100.0	374	1	PCT-US00-32990-15	Sequence 15, Appl
2	2000	100.0	374	1	PCT-US01-16450-2579	Sequence 2579, Ap
3	2000	100.0	374	1	PCT-US01-16450A-2579	Sequence 2579, Ap
4	2000	100.0	374	1	PCT-US03-26491-148	Sequence 148, App
5	2000	100.0	374	23	US-09-887-855-2	Sequence 2, Appl1
6	2000	100.0	374	26	US-10-094-749-2090	Sequence 2090, Ap
7	2000	100.0	374	27	US-10-149-819-15	Sequence 15, Appl
8	2000	100.0	374	28	US-10-264-237-2579	Sequence 2579, Ap
9	2000	100.0	374	31	US-10-648-593-148	Sequence 148, App
10	2000	100.0	374	33	US-60-172-354-15	Sequence 15, Appl
11	1996	99.8	374	26	US-10-094-749-2142	Sequence 2142, Ap
12	1990	99.5	374	1	PCT-US99-17130-163	Sequence 163, App
13	1990	99.5	374	29	US-10-351-334-166	Sequence 166, App
14	1986	99.3	382	17	US-03-380-139A-137	Sequence 137, App
15	1986	99.3	382	18	US-09-423-844-137	Sequence 137, App
16	1986	99.3	382	20	US-09-664-610B-137	Sequence 137, App
17	1986	99.3	382	20	US-09-665-350-137	Sequence 137, App
18	1986	99.3	382	20	US-09-665-350B-137	Sequence 137, App
19	1986	99.3	382	24	US-09-902-572A-137	Sequence 137, App
20	1986	99.3	382	24	US-09-902-615-137	Sequence 137, App
21	1986	99.3	382	24	US-09-902-634-137	Sequence 137, App
22	1986	99.3	382	24	US-09-902-834A-137	Sequence 137, App
23	1986	99.3	382	24	US-09-902-854-137	Sequence 137, App
24	1986	99.3	382	24	US-09-902-692-137	Sequence 137, App
25	1986	99.3	382	24	US-09-902-713-137	Sequence 137, App
26	1986	99.3	382	24	US-09-902-713B-137	Sequence 137, App
27	1986	99.3	382	24	US-09-902-736-137	Sequence 137, App
28	1986	99.3	382	24	US-09-902-736A-137	Sequence 137, App
29	1986	99.3	382	24	US-09-902-759-137	Sequence 137, App
30	1986	99.3	382	24	US-09-902-853-137	Sequence 137, App
31	1986	99.3	382	24	US-09-902-853A-137	Sequence 137, App
32	1986	99.3	382	24	US-09-902-903-137	Sequence 137, App
33	1986	99.3	382	24	US-09-902-979-137	Sequence 137, App
34	1986	99.3	382	24	US-09-902-979A-137	Sequence 137, App
35	1986	99.3	382	24	US-09-903-520-137	Sequence 137, App
36	1986	99.3	382	24	US-09-903-520A-137	Sequence 137, App
37	1986	99.3	382	24	US-09-903-562-137	Sequence 137, App
38	1986	99.3	382	24	US-09-903-562A-137	Sequence 137, App
39	1986	99.3	382	24	US-09-903-603A-137	Sequence 137, App
40	1986	99.3	382	24	US-09-903-640-137	Sequence 137, App
41	1986	99.3	382	24	US-09-903-640A-137	Sequence 137, App
42	1986	99.3	382	24	US-09-903-663-137	Sequence 137, App
43	1986	99.3	382	24	US-09-903-663A-137	Sequence 137, App
44	1986	99.3	382	24	US-09-903-749A-137	Sequence 137, App
45	1986	99.3	382	24	US-09-903-749A-137	Sequence 137, App

ALIGNMENTS

RESULT 1
PCT-US00-32990-15
; Sequence 15, Application PC/TUS0032990
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LO, Dying Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: PCT/US00/32990
; CURRENT FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program

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; SEQ ID NO 15
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 3143411CD1
PCT-US00-32990-15

Query Match      100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
QY 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
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Db 121 DGSISQFRNWWYDEPSCGSEVVMYHQPSPAPAGIGGPFYFQWDDRCNMKNNFICKYSD 180
QY 181 EKPAPVSRREAGEETELTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
Db 181 EKPAPVSRREAGEETELTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
QY 241 VTTVVCWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
Db 241 VTTVVCWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
QY 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
Db 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 3
PCT-US01-16450A-2579
; Sequence 2579, Application PC/TUS0116450A
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: P413PCT
; CURRENT APPLICATION NUMBER: PCT/US01/16450A
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2820
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US01-16450A-2579

Query Match      100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
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QY 61 EACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
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Db 181 EKPAPVSRREAGEETELTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
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Db 241 VTTVVCWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
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Db 301 DLKNIISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 2
PCT-US01-16450-2579
; Sequence 2579, Application PC/TUS0116450
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: P413PCT
; CURRENT APPLICATION NUMBER: PCT/US01/16450
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2820
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US01-16450-2579

Query Match      100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
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RESULT 4
PCT-US03-26491-148
; Sequence 148, Application PC/TUS0326491
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 PCT
; CURRENT APPLICATION NUMBER: PCT/US03/26491
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US03-26491-148

Query Match 100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGCTGTPCQVYVYFHTSRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGCTGTPCQVYVYFHTSRLNFEAK	60
Qy	61	EACRRDGGQLVSIESTEDEQKLEKFIENLLPSDGFQWIGLRREERKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSIESTEDEQKLEKFIENLLPSDGFQWIGLRREERKQSNSTACQDLYAWT	120
Qy	121	DGSIQFRNMYVDEPSCGSEVCVMVHQPAPAGIGGPMFQWDDRCNMKNFICKYSD	180
Db	121	DGSIQFRNMYVDEPSCGSEVCVMVHQPAPAGIGGPMFQWDDRCNMKNFICKYSD	180
Qy	181	EKPAVPSRAEGEETELTTPVLPETQEDAKTKFKESREAAALNLAYILIPSIPLLLLV	240
Db	181	EKPAVPSRAEGEETELTTPVLPETQEDAKTKFKESREAAALNLAYILIPSIPLLLLV	240
Qy	241	VTTVVCWVWICRKRREOPDPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Db	241	VTTVVCWVWICRKRREOPDPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Qy	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR	360
Qy	361	SKESGWENEIYGY 374	
Db	361	SKESGWENEIYGY 374	

RESULT 5
US-09-887-855-2
; Sequence 2, Application US/09887855
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

Query Match 100.0%; Score 2000; DB 23; Length 374;

Qy	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGCTGTPCQVYVYFHTSRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGCTGTPCQVYVYFHTSRLNFEAK	60
Qy	61	EACRRDGGQLVSIESTEDEQKLEKFIENLLPSDGFQWIGLRREERKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSIESTEDEQKLEKFIENLLPSDGFQWIGLRREERKQSNSTACQDLYAWT	120
Qy	121	DGSIQFRNMYVDEPSCGSEVCVMVHQPAPAGIGGPMFQWDDRCNMKNFICKYSD	180
Db	121	DGSIQFRNMYVDEPSCGSEVCVMVHQPAPAGIGGPMFQWDDRCNMKNFICKYSD	180
Qy	181	EKPAVPSRAEGEETELTTPVLPETQEDAKTKFKESREAAALNLAYILIPSIPLLLLV	240
Db	181	EKPAVPSRAEGEETELTTPVLPETQEDAKTKFKESREAAALNLAYILIPSIPLLLLV	240
Qy	241	VTTVVCWVWICRKRREOPDPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Db	241	VTTVVCWVWICRKRREOPDPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Qy	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSGFTLVSVESGFTVNDIYFSPDQMR	360
Qy	361	SKESGWENEIYGY 374	
Db	361	SKESGWENEIYGY 374	

RESULT 6
US-10-094-749-2090
; Sequence 2090, Application US/10094749
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAORIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2090
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2090

Query Match 100.0%; Score 2000; DB 26; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWT 120
 DB 61 EACRRDGGQLVSESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNWWYVDEPSCGSEVGVVWYHOPSAAGIGGYPWFQWDDRCNMKNFICKYSD 180
 DB 121 DGSISQFRNWWYVDEPSCGSEVGVVWYHOPSAAGIGGYPWFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAPVSRREAGEETELTTPVLPSTQBEDAKTKFKESREAAALNAYILIPSLPLLLLV 240
 DB 181 EKPAPVSRREAGEETELTTPVLPSTQBEDAKTKFKESREAAALNAYILIPSLPLLLLV 240
 QY 241 VTTVVCWWICRKRREOPDPSTKKQHTIWPSPHQNSPDLEVVNVIKQSEADLAETRP 300
 DB 241 VTTVVCWWICRKRREOPDPSTKKQHTIWPSPHQNSPDLEVVNVIKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
 DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
 QY 361 SKESGWVENEIYGY 374
 DB 361 SKESGWVENEIYGY 374

RESULT 7

US-10-149-819-15
 ; Sequence 15, Application US/10149819
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: YUE, Henry
 ; APPLICANT: AZIMZAI, Yaida
 ; APPLICANT: TANG, Y. Tom
 ; APPLICANT: PATTERSON, Chandra
 ; APPLICANT: BAUGHN, Mariah R.
 ; APPLICANT: LU, Dyoung Aina M.
 ; APPLICANT: SHAH, Puvri
 ; APPLICANT: LAL, Preeti
 ; APPLICANT: AD-YOUNG, Janice
 ; APPLICANT: BURFORD, Neil
 ; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
 ; FILE REFERENCE: PF-0760 PCT
 ; CURRENT APPLICATION NUMBER: US/10/149,819
 ; CURRENT FILING DATE: 2002-06-10
 ; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
 ; PRIOR FILING DATE: 1999-12-10; 1999-12-16
 ; NUMBER OF SEQ ID NOS: 42
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 15
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: incyte ID No: 3143411CD1
 US-10-149-819-15

Query Match 100.0%; Score 2000; DB 27; Length 374;
 Best Local Similarity 100.0%; Pred. No. 3.4e-184;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWT 120
 DB 61 EACRRDGGQLVSESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWT 120

QY 121 DGSISQFRNWWYVDEPSCGSEVGVVWYHOPSAAGIGGYPWFQWDDRCNMKNFICKYSD 180
 DB 121 DGSISQFRNWWYVDEPSCGSEVGVVWYHOPSAAGIGGYPWFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAPVSRREAGEETELTTPVLPSTQBEDAKTKFKESREAAALNAYILIPSLPLLLLV 240
 DB 181 EKPAPVSRREAGEETELTTPVLPSTQBEDAKTKFKESREAAALNAYILIPSLPLLLLV 240
 QY 241 VTTVVCWWICRKRREOPDPSTKKQHTIWPSPHQNSPDLEVVNVIKQSEADLAETRP 300
 DB 241 VTTVVCWWICRKRREOPDPSTKKQHTIWPSPHQNSPDLEVVNVIKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
 DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
 QY 361 SKESGWVENEIYGY 374
 DB 361 SKESGWVENEIYGY 374

RESULT 8

US-10-264-237-2579
 ; Sequence 2579, Application US/10264237
 ; GENERAL INFORMATION:
 ; APPLICANT: Birse et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: P4131P1
 ; CURRENT APPLICATION NUMBER: US/10/264,237
 ; CURRENT FILING DATE: 2002-10-04
 ; PRIOR APPLICATION NUMBER: PCT/US01/16450
 ; PRIOR FILING DATE: 2001-05-18
 ; PRIOR APPLICATION NUMBER: US 60/205,515
 ; PRIOR FILING DATE: 2000-05-19
 ; NUMBER OF SEQ ID NOS: 2876
 ; SOFTWARE: PatentIn Ver. 3.1
 ; SEQ ID NO 2579
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-264-237-2579

Query Match 100.0%; Score 2000; DB 28; Length 374;
 Best Local Similarity 100.0%; Pred. No. 3.4e-184;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKYIYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWT 120
 DB 61 EACRRDGGQLVSESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNWWYVDEPSCGSEVGVVWYHOPSAAGIGGYPWFQWDDRCNMKNFICKYSD 180
 DB 121 DGSISQFRNWWYVDEPSCGSEVGVVWYHOPSAAGIGGYPWFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAPVSRREAGEETELTTPVLPSTQBEDAKTKFKESREAAALNAYILIPSLPLLLLV 240
 DB 181 EKPAPVSRREAGEETELTTPVLPSTQBEDAKTKFKESREAAALNAYILIPSLPLLLLV 240
 QY 241 VTTVVCWWICRKRREOPDPSTKKQHTIWPSPHQNSPDLEVVNVIKQSEADLAETRP 300
 DB 241 VTTVVCWWICRKRREOPDPSTKKQHTIWPSPHQNSPDLEVVNVIKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
 DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
 QY 361 SKESGWVENEIYGY 374
 DB 361 SKESGWVENEIYGY 374

Db 361 SKESGWENEIYGY 374

RESULT 9

US-10-648-593-148
; Sequence 148, Application US/10648593
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; FILE REFERENCE: D0273 NP
; CURRENT APPLICATION NUMBER: US/10/648,593
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-648-593-148

Query Match 100.0%; Score 2000; DB 31; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCVKYVYFHDTSRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCVKYVYFHDTSRLNFEAK	60
Qy	61	EACRRDGGQLVSTESDEQKLEKFTENLLPSDGFVIGLRREEKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSTESDEQKLEKFTENLLPSDGFVIGLRREEKQSNSTACQDLYAWT	120
Qy	121	DGSIQFRNMYVDEPSCGSEVCMVYHQPAPAGIGPWFQWDDRCNMKNFICKYSD	180
Db	121	DGSIQFRNMYVDEPSCGSEVCMVYHQPAPAGIGPWFQWDDRCNMKNFICKYSD	180
Qy	181	EKPAVPSRAEAGBETELTTPVLPETQEDAKTKPKESREAAINLAYILIPSLILLV	240
Db	181	EKPAVPSRAEAGBETELTTPVLPETQEDAKTKPKESREAAINLAYILIPSLILLV	240
Qy	241	VTTVVCWVWICRKRKEQPPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Db	241	VTTVVCWVWICRKRKEQPPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Qy	301	DLKNISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYEFSPDQMR	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYEFSPDQMR	360
Qy	361	SKESGWENEIYGY 374	
Db	361	SKESGWENEIYGY 374	

RESULT 10

US-60-172-354-15
; Sequence 15, Application US/60172354
; GENERAL INFORMATION:
; APPLICANT: Yue, Henry
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Burford, Neil
; APPLICANT: Azimzai, Yalda
; APPLICANT: Patterson, Chandra
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Lu, Dyung Aina M.
; APPLICANT: Shah, Purvi
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PP-0760 P

; CURRENT APPLICATION NUMBER: US/60/172,354
; CURRENT FILING DATE: 1999-12-16
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte Identifier No: 3143411CDD1
US-60-172-354-15

Query Match 100.0%; Score 2000; DB 33; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCVKYVYFHDTSRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGGTQPCVKYVYFHDTSRLNFEAK	60
Qy	61	EACRRDGGQLVSTESDEQKLEKFTENLLPSDGFVIGLRREEKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSTESDEQKLEKFTENLLPSDGFVIGLRREEKQSNSTACQDLYAWT	120
Qy	121	DGSIQFRNMYVDEPSCGSEVCMVYHQPAPAGIGPWFQWDDRCNMKNFICKYSD	180
Db	121	DGSIQFRNMYVDEPSCGSEVCMVYHQPAPAGIGPWFQWDDRCNMKNFICKYSD	180
Qy	181	EKPAVPSRAEAGBETELTTPVLPETQEDAKTKPKESREAAINLAYILIPSLILLV	240
Db	181	EKPAVPSRAEAGBETELTTPVLPETQEDAKTKPKESREAAINLAYILIPSLILLV	240
Qy	241	VTTVVCWVWICRKRKEQPPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Db	241	VTTVVCWVWICRKRKEQPPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP	300
Qy	301	DLKNISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYEFSPDQMR	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMNVNPSGFTLVSVESGFTVNDIYEFSPDQMR	360
Qy	361	SKESGWENEIYGY 374	
Db	361	SKESGWENEIYGY 374	

RESULT 11

US-10-094-749-2142
; Sequence 2142, Application US/10094749
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYU
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435

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; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match      99.8%; Score 1996; DB 26; Length 374;
Best Local Similarity 99.7%; Pred. No. 8.4e-184;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVCRGGTQPCYKVIYFHDTSRLNFEAK 60
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVCRGGTQPCYKVIYFHDTSRLNFEAK 60
QY 61 EACRRDGGQLVSIETSEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACQDLYAWT 120
DB 61 EACRRDGGQLVSIETSEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWNVDEPSCGSEVCVVMYHOPSAAGIGGPFYMFQWDDRCNMKNFICKYSD 180
DB 121 DGSISQFRNWNVDEPSCGSEVCVVMYHOPSAAGIGGPFYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSRAEGSETELTTPVLPETQEEDAKKTKFKESREAAALNLAYILIPSILLLLIV 240
DB 181 EKPAVPSRAEGSETELTTPVLPETQEEDAKKTKFKESREAAALNLAYILIPSILLLLIV 240
QY 241 VTTVVCWMI CRKREKQDPSTKKQHTTWPSPHQNSPDLEVVYVIRKQSEADLAETRP 300
DB 241 VTTVVCWMI CRKREKQDPSTKKQHTTWPSPHQNSPDLEVVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVESGFVTDIYEFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVESGFVTDIYEFSPDQMR 360
QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 12
PCT-US99-17130-163
; Sequence 163, Application PC/TUS9917130
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031.PCT
; CURRENT APPLICATION NUMBER: PCT/US99/17130
; CURRENT FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 163
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match      99.8%; Score 1996; DB 26; Length 374;
Best Local Similarity 99.7%; Pred. No. 8.4e-184;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVCRGGTQPCYKVIYFHDTSRLNFEAK 60
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPCVCRGGTQPCYKVIYFHDTSRLNFEAK 60
QY 61 EACRRDGGQLVSIETSEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACQDLYAWT 120
DB 61 EACRRDGGQLVSIETSEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWNVDEPSCGSEVCVVMYHOPSAAGIGGPFYMFQWDDRCNMKNFICKYSD 180
DB 121 DGSISQFRNWNVDEPSCGSEVCVVMYHOPSAAGIGGPFYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSRAEGSETELTTPVLPETQEEDAKKTKFKESREAAALNLAYILIPSILLLLIV 240
DB 181 EKPAVPSRAEGSETELTTPVLPETQEEDAKKTKFKESREAAALNLAYILIPSILLLLIV 240
QY 241 VTTVVCWMI CRKREKQDPSTKKQHTTWPSPHQNSPDLEVVYVIRKQSEADLAETRP 300
DB 241 VTTVVCWMI CRKREKQDPSTKKQHTTWPSPHQNSPDLEVVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVESGFVTDIYEFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMNVNPSSEGFVTLVSVESGFVTDIYEFSPDQMR 360
QY 361 SKESGWENEIYGY 374
DB 361 SKESGWENEIYGY 374

RESULT 13
US-10-351-334-166
; Sequence 166, Application US/10351334
; GENERAL INFORMATION:
; APPLICANT: Komatsculis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

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OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 FEATURE:
 NAME/KEY: SITE
 LOCATION: (112)
 OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 US-10-351-334-166

Query Match 99.5%; Score 1990; DB 29; Length 374;
 Best Local Similarity 99.5%; Pred. No. 3.2e-183;
 Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 MRPGTALQAVLLAVLVGLRAATGELLGSGQVPCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 DB 1 MRPGTALQAVLLAVLVGLRAATGELLGSGQVPCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 QY 61 EACRDGGQLVSISEDEQKLIETFPVLPETQEDAKTKFKESREAAALNAYLILPSIPLLLLV 240
 DB 61 EACRDGGQLVSISEDEQKLIETFPVLPETQEDAKTKFKESREAAALNAYLILPSIPLLLLV 240
 QY 121 DGSISQFRNYYVDEPSCGSEVCVVMYHQPAPAGIGGYPMFQWDDRCNMKNFICKYSD 180
 DB 121 DGSISQFRNYYVDEPSCGSEVCVVMYHQPAPAGIGGYPMFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAPVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNAYLILPSIPLLLLV 240
 DB 181 EKPAPVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNAYLILPSIPLLLLV 240
 QY 241 VTTVCVWVICRKRKEQDPSTKQHTIWPSPHOGNSPDLEVVNVIRKQSEADLAETRP 300
 DB 241 VTTVCVWVICRKRKEQDPSTKQHTIWPSPHOGNSPDLEVVNVIRKQSEADLAETRP 300
 QY 301 DKNISFVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTVNDIYEFSPDQNGR 360
 DB 301 DKNISFVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTVNDIYEFSPDQNGR 360
 QY 361 SKESGWENEIYGY 374
 DB 361 SKESGWENEIYGY 374

RESULT 14
 US-09-380-139A-137
 ; Sequence 137, Application US/09380139A
 ; GENERAL INFORMATION:
 ; APPLICANT: GENENTECH, INC. et al.
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Pennica, Diane
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Yuan, Jean
 ; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 ; FILE REFERENCE: 10466-04
 ; CURRENT APPLICATION NUMBER: US/09/380,139A
 ; PRIOR FILING DATE: 1999-08-25
 ; PRIOR APPLICATION NUMBER: PCT/US 98/19330
 ; PRIOR FILING DATE: 1998-09-16
 ; NUMBER OF SEQ ID NOS: 379
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-380-139A-137

Query Match 99.3%; Score 1986; DB 17; Length 382;
 Best Local Similarity 97.9%; Pred. No. 8.1e-183;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 MRPGTALQAVLLAVLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
 DB 1 MRPGTALQAVLLAVLVGLRAATGRLLSASDLRLGGQVPCRGGTQPCYKVIYFHDTSR 60
 QY 53 RLNFEEAKEACRDGGQLVSISEDEQKLIETFPVLPETQEDAKTKFKESREAAALNAYLILPS 232

DB 61 RLNFEEAKEACRDGGQLVSISEDEQKLIETFPVLPETQEDAKTKFKESREAAALNAYLILPS 232
 QY 113 QDLYAWTDGSIQFRNYYVDEPSCGSEVCVVMYHQPAPAGIGGYPMFQWDDRCNMKN 172
 DB 121 QDLYAWTDGSIQFRNYYVDEPSCGSEVCVVMYHQPAPAGIGGYPMFQWDDRCNMKN 180
 QY 173 NFIKYSDEKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNAYLILPS 232
 DB 181 NFIKYSDEKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNAYLILPS 240
 QY 233 IPLLILLVVTTCVWVICRKRKEQDPSTKQHTIWPSPHOGNSPDLEVVNVIRKQSE 292
 DB 241 IPLLILLVVTTCVWVICRKRKEQDPSTKQHTIWPSPHOGNSPDLEVVNVIRKQSE 300
 QY 293 ADLAETRPDLKNISFVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTVNDIY 352
 DB 301 ADLAETRPDLKNISFVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTVNDIY 360
 QY 353 FSPDQNGRSKESGWENEIYGY 374
 DB 361 FSPDQNGRSKESGWENEIYGY 382

RESULT 15

US-09-423-844-137
 ; Sequence 137, Application US/09423844
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth
 ; APPLICANT: Pennica, Diane
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Yuan, Jean
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P1618P1E
 ; CURRENT APPLICATION NUMBER: US/09/423,844
 ; CURRENT FILING DATE: 1999-11-12
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: 1998-09-16
 ; NUMBER OF SEQ ID NOS: 379
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-09-423-844-137

Query Match 99.3%; Score 1986; DB 18; Length 382;
 Best Local Similarity 97.9%; Pred. No. 8.1e-183;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 MRPGTALQAVLLAVLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
 DB 1 MRPGTALQAVLLAVLVGLRAATGRLLSASDLRLGGQVPCRGGTQPCYKVIYFHDTSR 60
 QY 53 RLNFEEAKEACRDGGQLVSISEDEQKLIETFPVLPETQEDAKTKFKESREAAALNAYLILPS 112
 DB 61 RLNFEEAKEACRDGGQLVSISEDEQKLIETFPVLPETQEDAKTKFKESREAAALNAYLILPS 120
 QY 113 QDLYAWTDGSIQFRNYYVDEPSCGSEVCVVMYHQPAPAGIGGYPMFQWDDRCNMKN 172
 DB 121 QDLYAWTDGSIQFRNYYVDEPSCGSEVCVVMYHQPAPAGIGGYPMFQWDDRCNMKN 180
 QY 173 NFIKYSDEKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNAYLILPS 232
 DB 181 NFIKYSDEKPAVPSREAGEETELTPVLPEETOEDAKTKFKESREAAALNAYLILPS 240
 QY 233 IPLLILLVVTTCVWVICRKRKEQDPSTKQHTIWPSPHOGNSPDLEVVNVIRKQSE 292

Db	241	IPLLLLLVTTVVCWWICKRRKREQDPSTKKQHTIWFSPHOGNSPDLEVINVIRKQSE	300
Qy	293	ADLAETRPDLKNTSFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE	352
Db	301	ADLAETRPDLKNTSFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTVNDIYE	360
Qy	353	FSPDQMGSKESGWEVEIYGY	374
Db	361	FSPDQMGSKESGWEVEIYGY	382

Search completed: September 9, 2004, 22:30:43
 Job time : 419 secs

16	1101	98.7	382	10	US-09-904-011-137	Sequence 137, App
17	1101	98.7	382	10	US-09-906-742-137	Sequence 137, App
18	1101	98.7	382	10	US-09-906-838-137	Sequence 137, App
19	1101	98.7	382	10	US-09-907-613-137	Sequence 137, App
20	1101	98.7	382	10	US-09-907-942-137	Sequence 137, App
21	1101	98.7	382	10	US-09-904-859-137	Sequence 137, App
22	1101	98.7	382	10	US-09-909-204-137	Sequence 137, App
23	1101	98.7	382	10	US-09-904-820-137	Sequence 137, App
24	1101	98.7	382	10	US-09-904-786-137	Sequence 137, App
25	1101	98.7	382	10	US-09-906-646-137	Sequence 137, App
26	1101	98.7	382	10	US-09-906-700-137	Sequence 137, App
27	1101	98.7	382	10	US-09-903-786-137	Sequence 137, App
28	1101	98.7	382	10	US-09-902-903-137	Sequence 137, App
29	1101	98.7	382	10	US-09-903-749A-137	Sequence 137, App
30	1101	98.7	382	10	US-09-904-119-137	Sequence 137, App
31	1101	98.7	382	10	US-09-904-956-137	Sequence 137, App
32	1101	98.7	382	10	US-09-902-736-137	Sequence 137, App
33	1101	98.7	382	10	US-09-907-794-137	Sequence 137, App
34	1101	98.7	382	10	US-09-903-943-137	Sequence 137, App
35	1101	98.7	382	10	US-09-904-462-137	Sequence 137, App
36	1101	98.7	382	10	US-09-907-925-137	Sequence 137, App
37	1101	98.7	382	10	US-09-903-692-137	Sequence 137, App
38	1101	98.7	382	10	US-09-903-520-137	Sequence 137, App
39	1101	98.7	382	10	US-09-905-056-137	Sequence 137, App
40	1101	98.7	382	10	US-09-903-064-137	Sequence 137, App
41	1101	98.7	382	10	US-09-904-553-137	Sequence 137, App
42	1101	98.7	382	10	US-09-905-381-137	Sequence 137, App
43	1101	98.7	382	10	US-09-905-088-137	Sequence 137, App
44	1101	98.7	382	10	US-09-907-575-137	Sequence 137, App
45	1101	98.7	382	10	US-09-905-075-137	Sequence 137, App
46	1101	98.7	382	10	US-09-903-759-137	Sequence 137, App
47	1101	98.7	382	10	US-09-902-634-137	Sequence 137, App
48	1101	98.7	382	10	US-09-903-713-137	Sequence 137, App
49	1101	98.7	382	10	US-09-907-979-137	Sequence 137, App
50	1101	98.7	382	10	US-09-902-615-137	Sequence 137, App

ALIGNMENTS

RESULT 1
US-09-887-855-5
; Sequence 5, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION: Corporation
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCES: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5
; TYPE: PRT
; LENGTH: 206
; ORGANISM: Homo sapiens
US-09-887-855-5

Query Match	100.0%;	Score 1115;	DB 9;	Length 206;
Best Local Similarity	100.0%;	Pred. No. 1.5e-104;		
Matches 206;	Conservative	0;	Mismatches	0; Indels
Gaps	0;			
Qy	1	ATGRLLSGQVCRGGTQPCVKIYFHDTSRRLNFEAKEACRRDGGQLVSISEDEQKL	60	
Db	1	ATGRLLSGQVCRGGTQPCVKIYFHDTSRRLNFEAKEACRRDGGQLVSISEDEQKL	60	
Qy	61	IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAVTDGTSIQFRNMYVDSPSCGSEV	120	
Db	61	IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAVTDGTSIQFRNMYVDSPSCGSEV	120	
Qy	121	CVVMYHOPSPAGIGGPGYMFQWNNDRCNMKNFICKYSDKPAVPSREAGRETELTPV	180	
Db	121	CVVMYHOPSPAGIGGPGYMFQWNNDRCNMKNFICKYSDKPAVPSREAGRETELTPV	180	

16	1101	98.7	382	10	US-09-904-011-137	Sequence 137, App
17	1101	98.7	382	10	US-09-906-742-137	Sequence 137, App
18	1101	98.7	382	10	US-09-906-838-137	Sequence 137, App
19	1101	98.7	382	10	US-09-907-613-137	Sequence 137, App
20	1101	98.7	382	10	US-09-907-942-137	Sequence 137, App
21	1101	98.7	382	10	US-09-904-859-137	Sequence 137, App
22	1101	98.7	382	10	US-09-909-204-137	Sequence 137, App
23	1101	98.7	382	10	US-09-904-820-137	Sequence 137, App
24	1101	98.7	382	10	US-09-904-786-137	Sequence 137, App
25	1101	98.7	382	10	US-09-906-646-137	Sequence 137, App
26	1101	98.7	382	10	US-09-906-700-137	Sequence 137, App
27	1101	98.7	382	10	US-09-903-786-137	Sequence 137, App
28	1101	98.7	382	10	US-09-902-903-137	Sequence 137, App
29	1101	98.7	382	10	US-09-903-749A-137	Sequence 137, App
30	1101	98.7	382	10	US-09-904-119-137	Sequence 137, App
31	1101	98.7	382	10	US-09-904-956-137	Sequence 137, App
32	1101	98.7	382	10	US-09-902-736-137	Sequence 137, App
33	1101	98.7	382	10	US-09-907-794-137	Sequence 137, App
34	1101	98.7	382	10	US-09-903-943-137	Sequence 137, App
35	1101	98.7	382	10	US-09-904-462-137	Sequence 137, App
36	1101	98.7	382	10	US-09-907-925-137	Sequence 137, App
37	1101	98.7	382	10	US-09-903-692-137	Sequence 137, App
38	1101	98.7	382	10	US-09-903-520-137	Sequence 137, App
39	1101	98.7	382	10	US-09-905-056-137	Sequence 137, App
40	1101	98.7	382	10	US-09-903-064-137	Sequence 137, App
41	1101	98.7	382	10	US-09-904-553-137	Sequence 137, App
42	1101	98.7	382	10	US-09-905-381-137	Sequence 137, App
43	1101	98.7	382	10	US-09-905-088-137	Sequence 137, App
44	1101	98.7	382	10	US-09-907-575-137	Sequence 137, App
45	1101	98.7	382	10	US-09-905-075-137	Sequence 137, App
46	1101	98.7	382	10	US-09-903-759-137	Sequence 137, App
47	1101	98.7	382	10	US-09-902-634-137	Sequence 137, App
48	1101	98.7	382	10	US-09-903-713-137	Sequence 137, App
49	1101	98.7	382	10	US-09-907-979-137	Sequence 137, App
50	1101	98.7	382	10	US-09-902-615-137	Sequence 137, App

ALIGNMENTS

RESULT 1
US-09-887-855-5
; Sequence 5, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION: Corporation
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCES: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5
; TYPE: PRT
; LENGTH: 206
; ORGANISM: Homo sapiens
US-09-887-855-5

Query Match	100.0%;	Score 1115;	DB 9;	Length 206;
Best Local Similarity	100.0%;	Pred. No. 1.5e-104;		
Matches 206;	Conservative	0;	Mismatches	0; Indels
Gaps	0;			
Qy	1	ATGRLLSGQVCRGGTQPCVKIYFHDTSRRLNFEAKEACRRDGGQLVSISEDEQKL	60	
Db	1	ATGRLLSGQVCRGGTQPCVKIYFHDTSRRLNFEAKEACRRDGGQLVSISEDEQKL	60	
Qy	61	IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAVTDGTSIQFRNMYVDSPSCGSEV	120	
Db	61	IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAVTDGTSIQFRNMYVDSPSCGSEV	120	
Qy	121	CVVMYHOPSPAGIGGPGYMFQWNNDRCNMKNFICKYSDKPAVPSREAGRETELTPV	180	
Db	121	CVVMYHOPSPAGIGGPGYMFQWNNDRCNMKNFICKYSDKPAVPSREAGRETELTPV	180	

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Db 121 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 180
QY 181 LPEETOEDAKKTFKESREAAALNLAY 206
Db 181 LPEETOEDAKKTFKESREAAALNLAY 206

RESULT 2
US-09-887-855-2
; Sequence 2, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION:
; APPLICANT: Immurex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN S83939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

Query Match 100.0%; Score 1115; DB 9; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSISEDEQKL 60
Db 22 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSISEDEQKL 81
QY 61 IEKFIENLLPSDGFWDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGFWDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 180
Db 142 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 201
QY 181 LPEETOEDAKKTFKESREAAALNLAY 206
Db 202 LPEETOEDAKKTFKESREAAALNLAY 227

US-10-094-749-2090
; Sequence 15, Application US/10149819
; Publication No. US20030044913A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: US/10/149,819
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374

Db 121 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 180
QY 181 LPEETOEDAKKTFKESREAAALNLAY 206
Db 181 LPEETOEDAKKTFKESREAAALNLAY 227

RESULT 3
US-10-149-819-15
; Sequence 15, Application US/10149819
; Publication No. US20030044913A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: US/10/149,819
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374

Db 121 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 180
QY 181 LPEETOEDAKKTFKESREAAALNLAY 206
Db 181 LPEETOEDAKKTFKESREAAALNLAY 227

US-10-094-749-2090
; Sequence 15, Application US/10149819
; Publication No. US20030044913A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: US/10/149,819
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374
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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030044913A1 3143411CDI
US-10-149-819-15

Query Match 100.0%; Score 1115; DB 14; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSISEDEQKL 60
Db 22 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSISEDEQKL 81
QY 61 IEKFIENLLPSDGFWDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGFWDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 180
Db 142 CVMYHQPAPAGIGGPFYFQWDDRCNMKNFICKYDEKPAVPSREAEGETELTPV 201
QY 181 LPEETOEDAKKTFKESREAAALNLAY 206
Db 202 LPEETOEDAKKTFKESREAAALNLAY 227

RESULT 4
US-10-094-749-2090
; Sequence 2090, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKANATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: TRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2090
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2090

Query Match 100.0%; Score 1115; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSISEDEQKL 60
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Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 81
Qy 61 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 141
Qy 121 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 180
Db 142 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 201
Qy 181 LPEETOEDAKKTFKESREAAALNAY 206
Db 202 LPEETOEDAKKTFKESREAAALNAY 227

RESULT 5
US-10-264-237-2579
; Sequence 2579, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131PI
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-237-2579

Query Match 100.0%; Score 1115; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 60
Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 81
Qy 61 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 141
Qy 121 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 180
Db 142 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 201
Qy 181 LPEETOEDAKKTFKESREAAALNAY 206
Db 202 LPEETOEDAKKTFKESREAAALNAY 227

RESULT 6
US-10-648-593-148
; Sequence 148, Application US/10648593
; Publication No. US20040106132A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 NP
; CURRENT APPLICATION NUMBER: US/10/648,593
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
```

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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-648-593-148

Query Match 100.0%; Score 1115; DB 16; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 60
Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 81
Qy 61 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 141
Qy 121 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 180
Db 142 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 201
Qy 181 LPEETOEDAKKTFKESREAAALNAY 206
Db 202 LPEETOEDAKKTFKESREAAALNAY 227

RESULT 7
US-10-296-115-1311
; Sequence 1311, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 1311
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-296-115-1311

Query Match 100.0%; Score 1115; DB 12; Length 387;
Best Local Similarity 100.0%; Pred. No. 3.4e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 60
Db 35 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQGVLSIESDEQKL 94
Qy 61 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 120
Db 95 IEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 154
Qy 121 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 180
Db 155 CVMVYHQPAPAGIGGPFQWMDRCNMKNFICKYSDKPAVPSREAGEETELTPV 214
Qy 181 LPEETOEDAKKTFKESREAAALNAY 206
Db 215 LPEETOEDAKKTFKESREAAALNAY 240

RESULT 8
US-10-094-749-2142
; Sequence 2142, Application US/10094749
```

```

; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match          99.6%; Score 1111; DB 15; Length 374;
Best Local Similarity 99.5%; Pred. No. 8.3e-104;
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIESDEQKL 60
DB 22 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIESDEQKL 81

QY 61 IEKFTENLLPSDGDWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
DB 82 IEKFTENLLPSDGDWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141

QY 121 CVVMYHQPAPAGIGPYMFQWDDRCNKNFNICKYSDEKPAVPSREAGEETELTPV 180
DB 142 CVVMYHQPAPAGIGPYMFQWDDRCNKNFNICKYSDEKPAVPSREAGEETELTPV 201

QY 181 LPEETOEDAKTKFKESREAAALNLAY 206
DB 202 LPEETOEDAKTKFKESREAAALNLAY 227

RESULT 9
US-10-351-334-166
; Sequence 166, Application US/10351334
; Publication No. US20040034196A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29

; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match          99.1%; Score 1105; DB 12; Length 374;
Best Local Similarity 99.0%; Pred. No. 3.4e-103;
Matches 204; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIESDEQKL 60
DB 22 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIESDEQKL 81

QY 61 IEKFTENLLPSDGDWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
DB 82 IEKFTENLLPSDGDWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141

QY 121 CVVMYHQPAPAGIGPYMFQWDDRCNKNFNICKYSDEKPAVPSREAGEETELTPV 180
DB 142 CVVMYHQPAPAGIGPYMFQWDDRCNKNFNICKYSDEKPAVPSREAGEETELTPV 201

QY 181 LPEETOEDAKTKFKESREAAALNLAY 206
DB 202 LPEETOEDAKTKFKESREAAALNLAY 227

RESULT 10
US-09-909-320-137
; Sequence 137, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jernie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

```



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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-320-137

Query Match          98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8,8e-103; Mismatches 0; Indels 8; Gaps 1;
Matches 206; Conservative 0;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRLNFEEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFEEAKACRRDGGQLVSI 81
QY 53 ESEDEQKLEKTIENLLPSDGFHWGLRRREKQSNSTACQDLYAWTDGSIQFENWYVD 112
Db 82 ESEDEQKLEKTIENLLPSDGFHWGLRRREKQSNSTACQDLYAWTDGSIQFENWYVD 141
QY 113 EFSGSEVCVMYHQPASAGIGGPFYMFQWMDNRCKMKNFICKYSDKPAVPSREAGE 172
Db 142 EFSGSEVCVMYHQPASAGIGGPFYMFQWMDNRCKMKNFICKYSDKPAVPSREAGE 201
QY 173 ETELTPVLPETQBEDAKKTKESREAAINLAY 206
Db 202 ETELTPVLPETQBEDAKKTKESREAAINLAY 235
```

```

; Sequence 137, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavins, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-137
```

```

Query Match          98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGCTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
    |||||
Db 22 ATGRLLSASDLDRGQPVCRGCTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 81
    |||||
QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 112
    |||||
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 141
    |||||
QY 113 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 172
    |||||
Db 142 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 201
    |||||
QY 173 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
    |||||
Db 202 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235
    |||||

```

RESULT 12

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US-09-905-291A-137
; Sequence 137, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15

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; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-291A-137

Query Match          98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGCTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
    |||||
Db 22 ATGRLLSASDLDRGQPVCRGCTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 81
    |||||
QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 112
    |||||
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 141
    |||||
QY 113 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 172
    |||||
Db 142 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 201
    |||||
QY 173 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
    |||||
Db 202 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235
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RESULT 13

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US-09-902-853-137
; Sequence 137, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.

```

```
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR FILING DATE: 2000-09-18
; PRIOR FILING DATE: 2000-09-18
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-902-853-137

Query Match          98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8,8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFFBKAACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGQGVCRGGTQPCYKVIYFHDTSRRLNFFBKAACRRDGGQLVSI 81
QY 53 ESEDEQKLEKFIENLLSDGDFWGLRRREKQSNSTACQDLVAWTDGSIQFENWYVD 112
Db 82 ESEDEQKLEKFIENLLSDGDFWGLRRREKQSNSTACQDLVAWTDGSIQFENWYVD 141
QY 113 EPSGSGVCVMYHQPAPAGIGGPFYFQWDDRRCKMKNFICKYSDEKPAVPSREABGE 172
Db 142 EPSGSGVCVMYHQPAPAGIGGPFYFQWDDRRCKMKNFICKYSDEKPAVPSREABGE 201
QY 173 EPELTTPVLPEETQEDAKTKFKESREALNLAY 206
Db 202 ETELTPVLPEETQEDAKTKFKESREALNLAY 235

RESULT 14
US-09-907-824-137
; Sequence 137, Application US/09907824
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; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
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US-09-907-824-137
Query Match 98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIEXFIENLLPSDGDGFWIGLRREBEKQSNSTACODLYAWTDGSIQFRNYYVD 112
DB 82 ESEDEQKLIEXFIENLLPSDGDGFWIGLRREBEKQSNSTACODLYAWTDGSIQFRNYYVD 141
QY 113 EPCSGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
DB 142 EPCSGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 235

RESULT 15
US-09-907-841-137
; Sequence 137, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1993-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1993-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1993-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1993-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1993-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

US-09-907-824-137
Query Match 98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIEXFIENLLPSDGDGFWIGLRREBEKQSNSTACODLYAWTDGSIQFRNYYVD 112
DB 82 ESEDEQKLIEXFIENLLPSDGDGFWIGLRREBEKQSNSTACODLYAWTDGSIQFRNYYVD 141
QY 113 EPCSGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
DB 142 EPCSGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 235

RESULT 16
US-09-904-011-137
; Sequence 137, Application US/09904011
; Publication No. US20030003530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22

```

; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-011-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCVKYVIFHDTSRRLNFEEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCVKYVIFHDTSRRLNFEEAKACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTSGISQFRNWTVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTSGISQFRNWTVD 141

QY 113 EPCSGSEVCVMYHOPSPAGTGGPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAGE 172
Db 142 EPCSGSEVCVMYHOPSPAGTGGPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAGE 201

QY 173 ETELTPVLPEETQEDAKTKFESREAAALNLAY 206
Db 202 ETELTPVLPEETQEDAKTKFESREAAALNLAY 235

RESULT 17
US-09-906-742-137
; Sequence 137, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Fertara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Auscin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-742-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCVKYVIFHDTSRRLNFEEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCVKYVIFHDTSRRLNFEEAKACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFTENLLPSDGFHWGLRRREKQSNSTACQDLYAWTSGISQFRNWTVD 112
 Db 82 ESEDEQKLEKFTENLLPSDGFHWGLRRREKQSNSTACQDLYAWTSGISQFRNWTVD 141
 QY 113 EPCSGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
 Db 142 EPCSGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
 QY 173 ETELTTPVLPEETQBEDAKKTKESREAAINLAY 206
 Db 202 ETELTTPVLPEETQBEDAKKTKESREAAINLAY 235

RESULT 18

US-09-906-838-137
 ; Sequence 137, Application US/09906838
 ; Publication No. US20030027143A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/906,838
 ; PRIOR FILING DATE: 2001-07-16
 ; PRIOR APPLICATION NUMBER: 09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-03-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-03-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-906-838-137
 Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 ATGRLLS-----CQVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSI 52
 Db 22 ATGRLLSASDLDLRGGQPCVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSI 81
 QY 53 ESEDEQKLEKFTENLLPSDGFHWGLRRREKQSNSTACQDLYAWTSGISQFRNWTVD 112
 Db 82 ESEDEQKLEKFTENLLPSDGFHWGLRRREKQSNSTACQDLYAWTSGISQFRNWTVD 141
 QY 113 EPCSGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
 Db 142 EPCSGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
 QY 173 ETELTTPVLPEETQBEDAKKTKESREAAINLAY 206
 Db 202 ETELTTPVLPEETQBEDAKKTKESREAAINLAY 235

RESULT 19

US-09-907-613-137
 ; Sequence 137, Application US/09907613
 ; Publication No. US20030027145A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/907,613

APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Pacini, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,942
CURRENT FILING DATE: 2002-01-22
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-613-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPCVCGGTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPCVCGGTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 81
QY 53 ESEDSQKLEKFIENLLPSDGFWTGLRRREKQSNSTACQDLYAWTDGSIQPFNWTVD 112
Db 82 ESEDSQKLEKFIENLLPSDGFWTGLRRREKQSNSTACQDLYAWTDGSIQPFNWTVD 141
QY 113 EPCSGEVCMVHOPSPAGTGGPYMOWNDRCNMKNFICKYDSEKPAVPSREARGE 172
Db 142 EPCSGEVCMVHOPSPAGTGGPYMOWNDRCNMKNFICKYDSEKPAVPSREARGE 201
QY 173 ETELTPVLPETQBEDAKTKFESREALNLAY 206
Db 202 ETELTPVLPETQBEDAKTKFESREALNLAY 235

RESULT 20
US-09-907-942-137
Sequence 137, Application US/09907942
Publication No. US20030027146A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPCVCGGTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPCVCGGTGTPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 112
 Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 141
 QY 113 EPCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 172
 Db 142 EPCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 201
 QY 173 ETELTTPVLPEETOEDAKTKFESREAAINLAY 206
 Db 202 ETELTTPVLPEETOEDAKTKFESREAAINLAY 235

RESULT 21

US-09-904-859-137
 ; Sequence 137, Application US/09904859
 ; Publication No. US20030036060A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/904,859
 ; CURRENT FILING DATE: 2001-07-12
 ; PRIOR APPLICATION NUMBER: 09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-904-859-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFAKEACRRDGGQVSI 52
 Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEFAKEACRRDGGQVSI 81
 QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 112
 Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVD 141
 QY 113 EPCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 172
 Db 142 EPCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 201
 QY 173 ETELTTPVLPEETOEDAKTKFESREAAINLAY 206
 Db 202 ETELTTPVLPEETOEDAKTKFESREAAINLAY 235

RESULT 22

US-09-909-204-137
 ; Sequence 137, Application US/09909204
 ; Publication No. US20030036061A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/909,204
 ; CURRENT FILING DATE: 2001-07-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR FILING DATE: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-909-204-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

 QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYPHDTSRRLNFEEAKEACRRDGGQLVSI 52
 Db |||||
 22 ATGRLLSASDLRLRGQPVCRGGTQPCYKVIYPHDTSRRLNFEEAKEACRRDGGQLVSI 81
 QY 53 ESEDEQKLIKFIENLLPSDGDFTWGLRRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
 Db |||||
 82 ESEDEQKLIKFIENLLPSDGDFTWGLRRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
 QY 113 EPCSCSECVVMYHOPSPAGIGGPFQWDDRCNKNNTICKYSDEKPAVPSREAEGE 172
 Db |||||
 142 EPCSCSECVVMYHOPSPAGIGGPFQWDDRCNKNNTICKYSDEKPAVPSREAEGE 201
 QY 173 ETELTPVLPETQEDAKTFKESREAAALNAY 206
 Db |||||
 202 ETELTPVLPETQEDAKTFKESREAAALNAY 235

RESULT 23
 US-09-904-820-137
 ; Sequence 137, Application US/09904820
 ; Publication No. US20030036094A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/904,820
 ; CURRENT FILING DATE: 2001-07-13
 ; PRIOR APPLICATION NUMBER: 09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapien
 US-09-904-820-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTORPCVKVIYFHDTSRRLNFEAKACRRDGGQLVSI 52
 Db 22 ATGRLLSADLRLGGQPCVCRGGTORPCVKVIYFHDTSRRLNFEAKACRRDGGQLVSI 81
 QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLVAWTDGSIQSFRNMYVD 112
 Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLVAWTDGSIQSFRNMYVD 141
 QY 113 EPCSGSEVCVMYHOPSAAGIGGPMFQWDDRCNMKNFNICKYSDEKPAVPSREAGE 172
 Db 142 EPCSGSEVCVMYHOPSAAGIGGPMFQWDDRCNMKNFNICKYSDEKPAVPSREAGE 201
 QY 173 ETELTPVLPESTQEDAKKTFKESREAAALNAY 206
 Db 202 ETELTPVLPESTQEDAKKTFKESREAAALNAY 235

RESULT 24

US-09-904-786-137
 ; Sequence 137, Application US/09904786
 ; Publication No. US20030039969A1
 ; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/904,786
 ; CURRENT FILING DATE: 2001-07-12
 ; PRIOR APPLICATION NUMBER: 09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; ORGANISM: Homo Sapien

US-09-904-786-137
 Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8, 8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTORPCVKVIYFHDTSRRLNFEAKACRRDGGQLVSI 52
 Db 22 ATGRLLSADLRLGGQPCVCRGGTORPCVKVIYFHDTSRRLNFEAKACRRDGGQLVSI 81
 QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLVAWTDGSIQSFRNMYVD 112
 Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLVAWTDGSIQSFRNMYVD 141

QY 113 EPCSGSEVCVMYHOPSAAGIGGPMFQWDDRCNMKNFNICKYSDEKPAVPSREAGE 172
 Db 142 EPCSGSEVCVMYHOPSAAGIGGPMFQWDDRCNMKNFNICKYSDEKPAVPSREAGE 201
 QY 173 ETELTPVLPESTQEDAKKTFKESREAAALNAY 206
 Db 202 ETELTPVLPESTQEDAKKTFKESREAAALNAY 235

RESULT 25

US-09-906-646-137
 ; Sequence 137, Application US/09906646
 ; Publication No. US20030039971A1
 ; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/906,646
 ; CURRENT FILING DATE: 2002-01-22
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911

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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-646-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHTDTSRLNFEFEAKACRRDGGQVSI 52
DB 22 ATGRLLSADLDLRGGQVCRGGTQPCYKVIYFHTDTSRLNFEFEAKACRRDGGQVSI 81
QY 53 ESEDEQKLIKFIEIENLLPSDGFMTGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIKFIEIENLLPSDGFMTGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVVMYHQPSPAGIGGYPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAGE 172
DB 142 EPSCGSEVVMYHQPSPAGIGGYPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 235

RESULT 26
US-09-906-700-137
; Sequence 137, Application US/09906700
; Publication No. US20030039972A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
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; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHTDTSRLNFEFEAKACRRDGGQVSI 52
DB 22 ATGRLLSADLDLRGGQVCRGGTQPCYKVIYFHTDTSRLNFEFEAKACRRDGGQVSI 81
QY 53 ESEDEQKLIKFIEIENLLPSDGFMTGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIKFIEIENLLPSDGFMTGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVVMYHQPSPAGIGGYPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAGE 172
DB 142 EPSCGSEVVMYHQPSPAGIGGYPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 235

RESULT 27
US-09-903-786-137
; Sequence 137, Application US/09903786
; Publication No. US20030044793A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
```

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APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT FILING DATE: 2001-07-11
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
.SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-903-786-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHTDSRLNFFFEAKACRRDGGQLVSI 52
DB 22 ATGRLLSADLDRGGQVCRGGTQPCYKVIYFHTDSRLNFFFEAKACRRDGGQLVSI 81
QY 53 ESEDEKLIKFIENLLSDGDFWIGLRREKQSNSTACQDLYAWTDGSIQFRNRYVD 112
DB 82 ESEDEKLIKFIENLLSDGDFWIGLRREKQSNSTACQDLYAWTDGSIQFRNRYVD 141

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QY 113 EPGSGSEVCVMYHQPAPAGIGGPTMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 172
DB 142 EPGSGSEVCVMYHQPAPAGIGGPTMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 201
QY 173 ETELTPVLPEETOEDDAKTKPKESREAAALNLAY 206
DB 202 ETELTPVLPEETOEDDAKTKPKESREAAALNLAY 235

RESULT 28
US-09-902-903-137
Sequence 137, Application US/09902903
Publication No. US20030044839A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,903
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16

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;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 137
;; LENGTH: 382
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-902-903-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIKFENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAE 172
DB 142 EPSCGSEVCVMYHQPAPAGIGPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAE 201
QY 173 ETELTTPVLPETQEDAKKTFKESREAAINLAY 206
DB 202 ETELTTPVLPETQEDAKKTFKESREAAINLAY 235

RESULT 29
US-09-903-749A-137
; Sequence 137, Application US/09903749A
; Publication No. US20030045693A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903/749A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07

;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-08-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 137
;; LENGTH: 382
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-903-749A-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIKFENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAE 172
DB 142 EPSCGSEVCVMYHQPAPAGIGPYMFQWDDRCNNKNNFICKYSDEKPAVPSREAE 201
QY 173 ETELTTPVLPETQEDAKKTFKESREAAINLAY 206
DB 202 ETELTTPVLPETQEDAKKTFKESREAAINLAY 235

RESULT 30
US-09-904-119-137
; Sequence 137, Application US/09904119
; Publication No. US20030049621A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/904,119
 ; CURRENT FILING DATE: 2001-07-11
 ; PRIOR APPLICATION NUMBER: 09/565,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-09-904-119-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred No. 8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLS-----GQVCGGTGTPCYKVIYFHTDSRLNPFEEAKACRRDGGQLVSI 52
 DB 22 ATGRLSASDLRLGQGVPCVCGGTGTPCYKVIYFHTDSRLNPFEEAKACRRDGGQLVSI 81
 QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDCGISQFRNMYVD 112

Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDCGISQFRNMYVD 141
 QY 113 EPCGSEVGVVYHQPASAPAGIGGPPYMFQWDDRCNKNFKICKYSDKPAVPSRAEAGE 172
 Db 142 EPCGSEVGVVYHQPASAPAGIGGPPYMFQWDDRCNKNFKICKYSDKPAVPSRAEAGE 201
 QY 173 ETELTTPVLPEETQEDDAKTKTKESREAAALNLAY 206
 Db 202 ETELTTPVLPEETQEDDAKTKTKESREAAALNLAY 235

RESULT 31
 US-09-904-956-137
 ; Sequence 137, Application US/09904956
 ; Publication No. US20030049622A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/904,956
 ; CURRENT FILING DATE: 2001-07-12
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-956-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCVKIYFHDTSRRLNFEAEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQVCRGGTQPCVKIYFHDTSRRLNFEAEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACODLYAWTDGSIQFRNRYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACODLYAWTDGSIQFRNRYVD 141
Qy 113 EPSGSEVVCVVMYHQPSPAGIGGYPWFQWDDRCNMKNFI CKYSDEKPAVPSRAEAGE 172
Db 142 EPSGSEVVCVVMYHQPSPAGIGGYPWFQWDDRCNMKNFI CKYSDEKPAVPSRAEAGE 201
Qy 173 ETELTTPVLPEETQEDAKTKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKTKTFKESREAAALNLAY 235

RESULT 33
US-09-907-794-137
; Sequence 137, Application US/09907794
; Publication No. US20030049677A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen

; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-956-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCVKIYFHDTSRRLNFEAEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQVCRGGTQPCVKIYFHDTSRRLNFEAEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACODLYAWTDGSIQFRNRYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWMGLRRREKQSNSTACODLYAWTDGSIQFRNRYVD 141
Qy 113 EPSGSEVVCVVMYHQPSPAGIGGYPWFQWDDRCNMKNFI CKYSDEKPAVPSRAEAGE 172
Db 142 EPSGSEVVCVVMYHQPSPAGIGGYPWFQWDDRCNMKNFI CKYSDEKPAVPSRAEAGE 201
Qy 173 ETELTTPVLPEETQEDAKTKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKTKTFKESREAAALNLAY 235

RESULT 32
US-09-902-736-137
; Sequence 137, Application US/09902736
; Publication No. US20030049676A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,736
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 09/565,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414

APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28584
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-794-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVRCGGTGPCYKVIYFHDTSRLNLFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGCGQVRCGGTGPCYKVIYFHDTSRLNLFEEAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFTIENLLPSDGFWIGLRRREKQSNSTACQDLAYAWTDGSIQFRNYYVD 112
DB 82 ESEDEQKLEKFTIENLLPSDGFWIGLRRREKQSNSTACQDLAYAWTDGSIQFRNYYVD 141
QY 113 EPSGSEVCVMYHQSAPAGIGGPFMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
DB 142 EPSGSEVCVMYHQSAPAGIGGPFMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTPVLPEETOEDDAKKTFSREAAALNLAY 206
DB 202 ETELTPVLPEETOEDDAKKTFSREAAALNLAY 235

RESULT 34
US-09-903-943-137
Sequence 137, Application US/09903943
Publication No. US20030054349A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/903,943
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30


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; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-943-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 81
QY 53 ESEDEQKLIETKFIENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIETKFIENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNKNFNICKYSDEKPAVPSRAEAGE 172
DB 142 EPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNKNFNICKYSDEKPAVPSRAEAGE 201
QY 173 ETELTPVLPEETQBEDAKTKFKESREAAALNAY 206
DB 202 ETELTPVLPEETQBEDAKTKFKESREAAALNAY 235

RESULT 35
US-09-904-462-137
; Sequence 137, Application US/09904462
; Publication No. US20030054351A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherwan
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, A.
; APPLICANT: Goddard, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kjaev, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
```

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; CURRENT APPLICATION NUMBER: US/09/904,462
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-462-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 81
QY 53 ESEDEQKLIETKFIENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIETKFIENLLPSDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNKNFNICKYSDEKPAVPSRAEAGE 172
DB 142 EPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNKNFNICKYSDEKPAVPSRAEAGE 201
QY 173 ETELTPVLPEETQBEDAKTKFKESREAAALNAY 206
DB 202 ETELTPVLPEETQBEDAKTKFKESREAAALNAY 235

RESULT 36
US-09-907-925-137
; Sequence 137, Application US/09907925
; Publication No. US20030054352A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
```

APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, A.
 APPLICANT: Goddard, Paul J.
 APPLICANT: Grimaldi, Christopher J.
 APPLICANT: Hillan, Kenneth, J.
 APPLICANT: Kijavin, Ivar J.
 APPLICANT: Mather, Jennie P.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Tumas, Daniel
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William, I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: 10466-14
 CURRENT APPLICATION NUMBER: US/09/907,925
 PRIOR FILING DATE: 2001-07-17
 PRIOR APPLICATION NUMBER: 09/665,350
 PRIOR FILING DATE: 2000-09-18
 PRIOR APPLICATION NUMBER: PCT/US00/04414
 PRIOR FILING DATE: 2000-02-22
 PRIOR APPLICATION NUMBER: US 60/143,048
 PRIOR FILING DATE: 1999-07-07
 PRIOR APPLICATION NUMBER: US 60/145,698
 PRIOR FILING DATE: 1999-07-26
 PRIOR APPLICATION NUMBER: US 60/146,222
 PRIOR FILING DATE: 1999-07-28
 PRIOR APPLICATION NUMBER: PCT/US99/20594
 PRIOR FILING DATE: 1999-08-08
 PRIOR APPLICATION NUMBER: PCT/US99/20944
 PRIOR FILING DATE: 1999-08-13
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: 1999-08-15
 PRIOR APPLICATION NUMBER: PCT/US99/21547
 PRIOR FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: PCT/US99/23089
 PRIOR FILING DATE: 1999-10-05
 PRIOR APPLICATION NUMBER: PCT/US99/28214
 PRIOR FILING DATE: 1999-11-29
 PRIOR APPLICATION NUMBER: PCT/US99/28313
 PRIOR FILING DATE: 1999-11-30
 PRIOR APPLICATION NUMBER: PCT/US99/28564
 PRIOR FILING DATE: 1999-12-02
 PRIOR APPLICATION NUMBER: PCT/US99/28565
 PRIOR FILING DATE: 1999-12-02
 PRIOR APPLICATION NUMBER: PCT/US99/30095
 PRIOR FILING DATE: 1999-12-16
 PRIOR APPLICATION NUMBER: PCT/US99/30911
 PRIOR FILING DATE: 1999-12-20
 PRIOR APPLICATION NUMBER: PCT/US99/30999
 PRIOR FILING DATE: 1999-12-20
 PRIOR APPLICATION NUMBER: PCT/US00/00219
 PRIOR FILING DATE: 2000-01-05
 NUMBER OF SEQ ID NOS: 423
 SEQ ID NO 137
 LENGTH: 382
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-09-907-925-137
 Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;

Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 ATGRLLS-----QPVCRGGTQPCYKVYFHDTSRLNFEFEAKACRDGQGLVSI 52
 DB 22 ATGRLLSASDLDLRGGQPCVCRGGTQPCYKVYFHDTSRLNFEFEAKACRDGQGLVSI 81
 QY 53 ESEDEQKLEKTIENLLPSDGFWGLRRREKQSNSTACQDLYAWTDSISQFRNYYVD 112
 DB 82 ESEDEQKLEKTIENLLPSDGFWGLRRREKQSNSTACQDLYAWTDSISQFRNYYVD 141
 QY 113 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDKPAVPSREAGE 172
 DB 142 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDKPAVPSREAGE 201
 QY 173 ETELTTPVLPEETOEDAKKTFKESREAAINLAY 206
 DB 202 ETELTTPVLPEETOEDAKKTFKESREAAINLAY 235
 RESULT 37
 US-09-902-692-137
 ; Sequence 137, Application US/09902692
 ; Publication No. US20030054400A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/902,692
 ; PRIOR FILING DATE: 2001-07-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-08-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-08-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-08-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,520
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-520-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY	1	ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSI	52
Db	22	ATGRLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSI	81
QY	53	ESEDEQKLIKFTIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD	112
Db	82	ESEDEQKLIKFTIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD	141
QY	113	EPSCGSEVVMYHQPAPAGIGGYPWFQWDDRCNMKNFKICKYDEKPAVPSREAGE	172
Db	142	EPSCGSEVVMYHQPAPAGIGGYPWFQWDDRCNMKNFKICKYDEKPAVPSREAGE	201
QY	173	ETELTTPVLPETQEDAKKTFKESREAAALNLAY	206
Db	202	ETELTTPVLPETQEDAKKTFKESREAAALNLAY	235

RESULT 39
US-09-905-056-137
; Sequence 137, Application US/09905056
; Publication No. US20030054441A1

; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-692-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY	1	ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSI	52
Db	22	ATGRLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSI <th>81</th>	81
QY	53	ESEDEQKLIKFTIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD <th>112</th>	112
Db	82	ESEDEQKLIKFTIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD <th>141</th>	141
QY	113	EPSCGSEVVMYHQPAPAGIGGYPWFQWDDRCNMKNFKICKYDEKPAVPSREAGE <th>172</th>	172
Db	142	EPSCGSEVVMYHQPAPAGIGGYPWFQWDDRCNMKNFKICKYDEKPAVPSREAGE <th>201</th>	201
QY	173	ETELTTPVLPETQEDAKKTFKESREAAALNLAY <th>206</th>	206
Db	202	ETELTTPVLPETQEDAKKTFKESREAAALNLAY <th>235</th>	235

RESULT 38
US-09-903-520-137
; Sequence 137, Application US/09903520
; Publication No. US20030054401A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

```

; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,056
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-905-056-137
; Query Match 98.7%; Score 1101; DB 10; Length 382;

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Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRLNFEPAKEACRRDGGQGVSI 52
    |||||
Db 22 ATGRLLSASDLRLRGQPVCRGGTQPCYKVIYFHDTSRLNFEPAKEACRRDGGQGVSI 81
    |||||
Qy 53 ESEDEOKLIEKFTIENLLPSDGFWIGLRRREKQKNSACQDLYAWTDCSISQFNNWYD 112
    |||||
Db 82 ESEDEOKLIEKFTIENLLPSDGFWIGLRRREKQKNSACQDLYAWTDCSISQFNNWYD 141
    |||||
Qy 113 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 172
    |||||
Db 142 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 201
    |||||
Qy 173 ETELTPVLPEETQEDAKKTFKESREAAALNAY 206
    |||||
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNAY 235
    |||||

RESULT 40
US-09-909-064-137
; Sequence 137, Application US/09909064
; Publication No. US20030059772A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05

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; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 141
Qy 113 EPCSGSEVVMYHQPSPAGIGGPFQWDDRCNMKNFTICKYSDKPAVPSREAGE 172
Db 142 EPCSGSEVVMYHQPSPAGIGGPFQWDDRCNMKNFTICKYSDKPAVPSREAGE 201
Qy 173 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 235

RESULT 41
US-09-904-553-137
; Sequence 137, Application US/09904553
; Publication No. US20030059828A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Shetman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,553
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,598
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-553-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVD 141
Qy 113 EPCSGSEVVMYHQPSPAGIGGPFQWDDRCNMKNFTICKYSDKPAVPSREAGE 172
Db 142 EPCSGSEVVMYHQPSPAGIGGPFQWDDRCNMKNFTICKYSDKPAVPSREAGE 201
Qy 173 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETOEDAKTKFKESREAAALNLAY 235

RESULT 42
US-09-905-381-137
; Sequence 137, Application US/09905381
; Publication No. US20030059829A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Shetman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,598
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381-137
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; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-905-381-137

```

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Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHTDTSRLNFEFAKEACRDGGQLVSI 52
   |||||
Db 22 ATGRLLSASDLRGGQPCVCRGGTQPCYKVIYFHTDTSRLNFEFAKEACRDGGQLVSI 81
   |||||

Qy 53 ESEDEOKLIEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDSISQFRNYYVD 112
   |||||
Db 82 ESEDEOKLIEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDSISQFRNYYVD 141
   |||||

Qy 113 EPSCGSEVCVMYHQPSPAGIGGPPYMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 172
   |||||
Db 142 EPSCGSEVCVMYHQPSPAGIGGPPYMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 201
   |||||

Qy 173 ETELTTPVLPEETOEDAKTKPKESREAINLAY 206
   |||||
Db 202 ETELTTPVLPEETOEDAKTKPKESREAINLAY 235
   |||||

RESULT 43
US-09-905-088-137
; Sequence 137, Application US/09905088
; Publication No. US20030073077A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,088
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

```

APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,575
CURRENT FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-575-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGQTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNMYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNMYVD 141
Qy 113 EPCGSEVVMYHQPSPAGIGPYFQWDDRCNNKNFICKYSDEKPAVPSRAEGE 172
Db 142 EPCGSEVVMYHQPSPAGIGPYFQWDDRCNNKNFICKYSDEKPAVPSRAEGE 201
Qy 173 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 45
US-09-905-088-137

PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-905-088-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGQTQPCYKVIYFHDTSRLNFEAEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNMYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNMYVD 141
Qy 113 EPCGSEVVMYHQPSPAGIGPYFQWDDRCNNKNFICKYSDEKPAVPSRAEGE 172
Db 142 EPCGSEVVMYHQPSPAGIGPYFQWDDRCNNKNFICKYSDEKPAVPSRAEGE 201
Qy 173 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 44
US-09-907-575-137
Sequence 137, Application US/09907575
Publication No. US20030073079A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann

```

; Sequence 137, Application US/09905075
; Publication No. US20030077583A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,075
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION DATA REMOVED. Check file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-075-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 81

QY 53 ESEBQKLIKFIENLLPSDGFHWGLRRREKQSNSTACODLYAWTDGSIQPRNRYVD 112
DB 82 ESEBQKLIKFIENLLPSDGFHWGLRRREKQSNSTACODLYAWTDGSIQPRNRYVD 141

QY 113 EPCGSEVCVVMYHOPSPAGIGGPFQWMDRCNKNFNICKYSDKPAVPSREAGE 172
DB 142 EPCGSEVCVVMYHOPSPAGIGGPFQWMDRCNKNFNICKYSDKPAVPSREAGE 201

QY 173 ETELTTPVLPBETQEDAKTKFKSREAAALNAY 206
DB 202 ETELTTPVLPBETQEDAKTKFKSREAAALNAY 235

RESULT 46
US-09-902-759-137
; Sequence 137, Application US/09902759
; Publication No. US20030077654A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone

```

```

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,759
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-759-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 81

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QY 53 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPCSGSEVCVMYHQPAPAGIGPYMFQWNNDRCKNNKNNFICKYSDEKPAVPSREAE 172
DB 142 EPCSGSEVCVMYHQPAPAGIGPYMFQWNNDRCKNNKNNFICKYSDEKPAVPSREAE 201
QY 173 ETELTTPVLPEETOEDAKTKFKESREAAINLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFKESREAAINLAY 235

RESULT 47

US-09-902-634-137

Sequence 137, Application US/09902634
Publication No. US20030082540A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,634
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-902-634-137
Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPVCRGCTGTPCYKVIYFHDTSRLNFEFEAKACRRDGGQVSI 52
DB 22 ATGRLLSASDLRLRGQGPVCRGCTGTPCYKVIYFHDTSRLNFEFEAKACRRDGGQVSI 81
QY 53 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPCSGSEVCVMYHQPAPAGIGPYMFQWNNDRCKNNKNNFICKYSDEKPAVPSREAE 172
DB 142 EPCSGSEVCVMYHQPAPAGIGPYMFQWNNDRCKNNKNNFICKYSDEKPAVPSREAE 201
QY 173 ETELTTPVLPEETOEDAKTKFKESREAAINLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFKESREAAINLAY 235

RESULT 48

US-09-902-713-137

Sequence 137, Application US/09902713
Publication No. US20030082541A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,713
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 09/665,350

; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-713-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCVKYIYFHDTSRRLNFEAKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCVKYIYFHDTSRRLNFEAKACRRDGGQLVSI 81

QY 53 ESEDEKQLEKIEIENLLPSDGFWGLRRRREKQNSACODLVAVTDGSIQSRNNYVD 112
DB 82 ESEDEKQLEKIEIENLLPSDGFWGLRRRREKQNSACODLVAVTDGSIQSRNNYVD 141

QY 113 EPCSGSEVCVMYHQPSPAGIGGYPFQWDDRCNMKNFICKYSDKPAVPSREAGE 172
DB 142 EPCSGSEVCVMYHQPSPAGIGGYPFQWDDRCNMKNFICKYSDKPAVPSREAGE 201

QY 173 ETELTPVLPEETOEDAKTKFKESREANLNY 206
DB 202 ETELTPVLPEETOEDAKTKFKESREANLNY 235

RESULT 49
US-09-907-979-137
; Sequence 137 Application US/0907979
; Publication No. US20030082542A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,979
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-979-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCVKYIYFHDTSRRLNFEAKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCVKYIYFHDTSRRLNFEAKACRRDGGQLVSI 81

QY 53 ESEDEQKLIKFIENLLPSDGFHWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIKFIENLLPSDGFHWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGYPYFQWDDSCNKNFICKYSDEKPAVPSREAGE 172
DB 142 EPSCGSEVCVMYHQPAPAGIGGYPYFQWDDSCNKNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235

RESULT 50

US-09-902-615-137
; Sequence 137, Application US/09902615
; Publication No. US20030092002A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secretd and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,615
; CURRENT FILING DATE: 2001-12-14
; Prior application data removed. Check file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-615-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGCTGTCPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLDLRCGGQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFHWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 112
DB 82 ESEDEQKLIKFIENLLPSDGFHWIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGYPYFQWDDSCNKNFICKYSDEKPAVPSREAGE 172
DB 142 EPSCGSEVCVMYHQPAPAGIGGYPYFQWDDSCNKNFICKYSDEKPAVPSREAGE 201

QY 173 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235
Search completed: September 9, 2004, 22:50:39
Job time : 130 secs

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OM protein - protein search, using sw model
Run on: September 9, 2004, 22:30:53 ; Search time 116 Seconds
(without alignments)
560.317 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGLLSGQPCVRCGTORPC.....BEDAKKTFKESREANLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : SPTREMBL 25.*
1: sp_archaea.*
2: sp_bacteria.*
3: sp_fungi.*
4: sp_human.*
5: sp_invertebrate.*
6: sp_mammal.*
7: sp_mhc.*
8: sp_organalle.*
9: sp_phage.*
10: sp_plant.*
11: sp_rodent.*
12: sp_virus.*
13: sp_vertebrate.*
14: sp_unclassified.*
15: sp_rvirus.*
16: sp_bacteriap.*
17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1115	100.0	374	4	Q8tay8 homo sapien
2	1115	100.0	374	4	Q96nf3 homo sapien
3	1111	99.6	374	4	Q96nc5 homo sapien
4	945.5	84.8	374	11	Q92209 cricetus
5	803.5	72.1	211	11	Q8C351 mus musculu
6	580	52.0	246	11	Q8BMT7 mus musculu
7	580	52.0	292	11	Q8BVU2 mus musculu
8	513	46.0	236	4	Q72798 homo sapien
9	504.5	45.2	232	4	Q72799 homo sapien
10	500	44.8	236	4	Q727A0 homo sapien
11	185	16.6	1290	13	Q9w6el gallus gall
12	178.5	16.0	1456	11	Q61830 mus musculu
13	177.5	15.9	1348	5	Q25199 hydra atten
14	176.5	15.8	1479	4	Q9V5P9 homo sapien
15	176.5	15.8	1479	4	Q9UBG0 homo sapien
16	170.5	15.3	1479	11	Q64449 mus musculu

17	169	15.2	217	11	Q8C4F8	Q8C4f8 mus musculu
18	165.5	14.8	742	11	Q8K4Q8	Q8K4q8 mus musculu
19	165.5	14.8	742	11	Q8C979	Q8C979 mus musculu
20	161.5	14.5	134	5	Q9XYX3	Q9xyx3 hydra magni
21	159.5	14.3	742	11	Q8VIF6	Q8vif6 mus musculu
22	158	14.2	142	11	Q8CJ86	Q8Cj86 mus musculu
23	158	14.2	142	11	Q8BHK7	Q8bhk7 mus musculu
24	158	14.2	295	11	Q9LZW4	Q9lzw4 mus musculu
25	158	14.2	311	11	Q9D8V4	Q9d8v4 mus musculu
26	158	14.2	325	11	Q9LZX0	Q9lzx0 mus musculu
27	157	14.1	158	13	Q90W17	Q90w17 bungarus fa
28	156	14.0	323	11	Q8CJ91	Q8Cj91 mus musculu
29	156	14.0	339	6	Q95244	Q95244 sus scrofa
30	155	13.9	293	11	Q8BGZ0	Q8bgz0 mus musculu
31	155	13.9	323	11	Q8CJ94	Q8Cj94 mus musculu
32	155	13.9	323	11	Q8CJ93	Q8Cj93 mus musculu
33	155	13.9	323	11	Q8CJ88	Q8Cj88 mus musculu
34	155	13.9	379	11	Q7TMA7	Q7tma7 mus musculu
35	155	13.9	473	11	Q7TSP9	Q7tsp9 mus musculu
36	155	13.9	477	11	Q7TSO7	Q7tsq7 mus musculu
37	155	13.9	504	11	Q7TSO0	Q7tsq0 mus musculu
38	155	13.9	534	11	Q7TSO1	Q7tsq1 mus musculu
39	155	13.9	1152	13	Q90WM2	Q90wm2 xenopus lae
40	154	13.8	322	11	Q8CJ89	Q8Cj89 mus musculu
41	154	13.8	323	11	Q8CJ92	Q8Cj92 mus musculu
42	153	13.7	446	4	Q725K9	Q725k9 homo sapien
43	152.5	13.7	485	6	Q95LG3	Q95lg3 odocoileus
44	152	13.6	158	13	Q90WI6	Q90wi6 bungarus mu
45	151.5	13.6	622	4	Q8IXK1	Q8ixk1 homo sapien
46	150.5	13.5	399	6	Q8HY12	Q8hy12 hylobates l
47	150	13.5	197	6	Q28008	Q28008 bos taurus
48	149.5	13.4	158	11	Q8JZX6	Q8jzx6 mus musculu
49	149.5	13.4	459	5	Q22136	Q22136 caenorhabdi
50	149	13.4	158	13	Q90WI8	Q90wi8 bungarus fa

ALIGNMENTS

RESULT 1

Q8TAY8 PRELIMINARY; PRT; 374 AA.
ID Q8TAY8
AC Q8TAY8, 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Similar to unnamed protein product.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC025407; AAR25407.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00041; C-TYPE LECTIN 2; 1.
SQ SEQUENCE 374 AA; 42312 MW; Fc21456BC9B578D9 CRC64;

Query Match 100.0%; Score 1115; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 7.1e-99;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGLLSGQPCVRCGTORPCYKVIYFHTSRRRLNFEAKACRRDGGQLVSISEDEQKL 60

DB 22 ATGLLSGQPCVRCGTORPCYKVIYFHTSRRRLNFEAKACRRDGGQLVSISEDEQKL 81

QY 61 IEKTIENLLPSGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNRYVDEPSCGSEV 120

Db 82 IEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDEKPAVPSREAEGETELTTPV 180
 Db 142 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDEKPAVPSREAEGETELTTPV 201
 QY 181 LPETQEDAKKTFKESREAAALNAY 206
 Db 202 LPETQEDAKKTFKESREAAALNAY 227

RESULT 2

Q96NF3 PRELIMINARY; PRT; 374 AA.
 AC Q96NF3
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Hypothetical protein FLJ30977.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ishibashi T., Kanehori K., Yosida M., Watanabe S., Ishida S., Ono Y.,
 RA Hotta T., Hiraoka S., Murakawa K., Takiguchi S., Kusano J.,
 RA Watanabe M., Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y.,
 RA Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S.,
 RA Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T.,
 RA Kimura K., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K.,
 RA Wagatsuma M., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
 RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
 RA "NEDO human cDNA sequencing project."
 RT Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 RL EMBL; AK055539; BAB70946.1; -.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C_TYPE_LLECTIN_2; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 374 AA; 42280 MW; 8AE64B6C9E56DCD CRC64;

Query Match 100.0%; Score 1115; DB 4; Length 374;
 Best Local Similarity 100.0%; Pred. No. 7.1e-99;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESDEQKL 60
 Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESDEQKL 81
 QY 61 IEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNMYVDEPSCGSEV 120
 Db 82 IEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDEKPAVPSREAEGETELTTPV 180
 Db 142 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDEKPAVPSREAEGETELTTPV 201

QY 181 LPETQEDAKKTFKESREAAALNAY 206

Db 202 LPETQEDAKKTFKESREAAALNAY 227

RESULT 3

Q96NC5 PRELIMINARY; PRT; 374 AA.
 AC Q96NC5
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Hypothetical protein FLJ30977.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ishibashi T., Kanehori K., Yosida M., Watanabe S., Ishida S., Ono Y.,
 RA Hotta T., Hiraoka S., Murakawa K., Takiguchi S., Kusano J.,
 RA Watanabe M., Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y.,
 RA Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S.,
 RA Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T.,
 RA Kimura K., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K.,
 RA Wagatsuma M., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
 RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
 RA "NEDO human cDNA sequencing project."
 RT Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 RL EMBL; AK055539; BAB70946.1; -.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C_TYPE_LLECTIN_2; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 374 AA; 42280 MW; 8AE64B6C9E56DCD CRC64;

DE Hypothetical protein FLJ31092.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S.,
 RA Fukuzumi Y., Fujimori Y., Komiyama M., Sugiyama T., Irie R.,
 RA Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y.,
 RA Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Yamashita H.,
 RA Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K., Wagatsuma M.,
 RA Murakawa K., Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A.,
 RA Kawakami B., Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K.,
 RA Isogai T.;
 RA "NEDO human cDNA sequencing project."
 RT Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 RL EMBL; AK055539; BAB70978.1; -.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C_TYPE_LLECTIN_2; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 374 AA; 42310 MW; CBF74E676B23BA16 CRC64;

Query Match 99.6%; Score 1111; DB 4; Length 374;
 Best Local Similarity 99.5%; Pred. No. 1.7e-98;
 Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESDEQKL 60
 Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESDEQKL 81
 QY 61 IEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNMYVDEPSCGSEV 120
 Db 82 IEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDEKPAVPSREAEGETELTTPV 180
 Db 142 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDEKPAVPSREAEGETELTTPV 201
 QY 181 LPETQEDAKKTFKESREAAALNAY 206
 Db 202 LPETQEDAKKTFKESREAAALNAY 227

RESULT 4

Q92209 PRELIMINARY; PRT; 374 AA.
 AC Q92209
 DT 01-MAY-1999 (TrEMBLrel. 10, Created)
 DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Layilin.
 OS Cricetus griseus (Chinese hamster).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
 OC Cricetus.
 OX NCBI_TaxID=10029;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Borowsky M.D., Hynes R.O.;
 RA Layilin, a novel talin-binding transmembrane protein homologous with
 RT C-type lectins, is localized in membrane ruffles.";
 RT J. Cell Biol. 143:0-0(1998).
 DR EMBL; AF093673; AAC68695.1; -.
 DR HSSP; P22897; 1EGG
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C_TYPE_LLECTIN_2; 1

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SQ SEQUENCE 374 AA; 42435 MW; 298A8A24FB04E1C CRC64;
  Query Match 84.8%; Score 945.5; DB 11; Length 374;
  Best Local Similarity 85.9%; Pred. No. 1.4e-82;
  Matches 176; Conservative 9; Mismatches 19; Indels 1; Gaps 1;
QY 3 GRLLSGQVCGGTRPCYKVIYFHDTSRLNFEAKACRRDGGQLVSISEDEQKLIIE 62
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 24 GRLLSGQVCGGTRPCYKVIYFHDTSRLNFEAKACRRDGGQLVSISEDEQKLIIE 83
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 63 KFIENLLPSDGFQWGLRRREKQNSACQDLVYAWTDGSIQFRNRYVDEPSPCGSEVCV 122
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 84 KFIENLLASDGFQWGLRRLEVKQNNNTACQDLVYAWTDGSIQFRNRYVDEPSPCGSEVCV 143
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 123 VNYHQPSAPAGIGGPFQWDDRCNMKNFICKYSDEKPA-VPSREAEGETELTTPVL 181
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 144 VNYHQPSAPPGIGSGYMFQWDDRCNMKNFICKYADEKPTTSPRGGEATEPPTPVL 203
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 182 PEETOEDAKTFKESRAALNLAY 206
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 204 PEETOEDAKTFKESRAALNLAY 228
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 5
Q8C351 PRELIMINARY; PRT; 211 AA.
AC Q8C351
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE LAVILIN homolog (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Lung;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RA "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs."
RL Nature 420:563-573 (2002).
DR EMBL; AK031063; BAC27234.1; -.
DR MGD; MGI:2179069; Chod1.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00041; C TYPE LECTIN 2; 1.
FT NON_TER 211
SQ SEQUENCE 211 AA; 23697 MW; AD9870B5957DD5AE CRC64;
  Query Match 72.1%; Score 803.5; DB 11; Length 211;
  Best Local Similarity 79.8%; Pred. No. 3.3e-69;
  Matches 150; Conservative 9; Mismatches 20; Indels 9; Gaps 2;
QY 3 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSIET 54
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 24 GRLLSASDLDPGGQLVCRGGTRPCYKVIYFHDTSRLNFEAKACRRDGGQLVSIET 83
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 55 EDEQKLIIEFIENLLPSDGFQWGLRRREKQNSACQDLVYAWTDGSIQFRNRYVDEP 114
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 84 EDEQKLIIEFIENLLASDGFQWGLRRLEKQNSACQDLVYAWTDGSIQFRNRYVDEP 143
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 115 SCGSEVCVNYHQPSAPAGIGGPFQWDDRCNMKNFICKYSDEKPA-VPSREAEGET 173
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 144 SCGSEVCVNYHQPSAPPGIGSGYMFQWDDRCNMKNFICKYHDDKFTTSPWPGGEA 203
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 174 TELTTPVL 181
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 204 TEPATPLL 211
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 6
Q8BVI7 PRELIMINARY; PRT; 246 AA.
AC Q8BVI7
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C-type lectin protein MT75 homolog.
GN CHODL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Forelimb;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RA "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs."
RL Nature 420:563-573 (2002).
DR EMBL; AK031063; BAC27234.1; -.
DR MGD; MGI:2179069; Chod1.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00041; C TYPE LECTIN 2; 1.
SQ SEQUENCE 246 AA; 27394 MW; E872660C58267752 CRC64;
  Query Match 52.0%; Score 580; DB 11; Length 246;
  Best Local Similarity 57.9%; Pred. No. 1.2e-47;
  Matches 110; Conservative 26; Mismatches 40; Indels 14; Gaps 5;
QY 4 RLLSGQVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSISEDEQKLIIE 63
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 23 RVVSGQKVCFAVKHPCYKVIYFHDTSRLNFEAKACRRDGGQLVSISEDEQKLIIE 82
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 64 FIENLLP-----SDGFQWGLRRREKQNSACQDLVYAWTDGSIQFRNRYVDEPSCGS 118
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 83 MLQNLTKPGTGISDGFQWGLRRLEKQNSACQDLVYAWTDGSIQFRNRYVDEPSCGS 141
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 119 EVCVVMYHQPSAPAGIGGPFQWDDRCNMKNFICKYSDE-KPAVPSREAEGETELT 177
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 142 EVCVVMYHQPTANPGLGPGVLYQWDDRCNMKNYICKYEPETHTEPA-----EKPFLT 196
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 178 TPVLPPEETQE 187
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 197 NQ--PEETHE 204
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 7
Q8BVU2 PRELIMINARY; PRT; 292 AA.
AC Q8BVU2
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C-type lectin protein MT75 homolog.
GN CHODL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Head;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RA "Analysis of the mouse transcriptome based on functional annotation of
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RT 60,770 full-length cDNAs."
RL Nature 420:563-573 (2002).
DR EMBL; AK076523; BAC36378.1; -.
DR MGI; 2179069; Chodl.
DR GO; GO:0005529; F.sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS0041; C-TYPE LECTIN 2; 1.
SQ SEQUENCE 292 AA; 32502 MW; 73B631C0714D54E2 CRC64;

Query Match 52.0%; Score 580; DB 11; Length 292;
Best Local Similarity 57.9%; Pred. No. 1.5e-47;
Matches 110; Conservative 26; Mismatches 40; Indels 14; Gaps 5;

QY 4 RLLSGQVCRGCTGTCPCYKVIYFHTSRRLNPFEEAKEARRDGGQLVSISEDEQKLIK 63
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
23 RVVSGQKVCADVHKPCYKWAYFHELSSRVSFQEARLACESEGGVLLSLENAEQKLIES 82
QY 64 FIENLLP-----SDGDFWIGLRREKQSNSTACQDLYAWTDGSIQFRNHYVDEPSCGS 118
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
83 MLONTKPTGTSDDGDFWIGLRSDGGQT-SGACPDLYQWSDGSSQFRNHYTDEPSCGS 141
QY 119 EYCVVMYHOPSPAGIGGPMFQWDDRCNMKNFICKYSDB-KPAVPSREAEGETELT 177
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
142 EYCVVMYHOPSPAGIGGPMFQWDDRCNMKNFICKYSDB-KPAVPSREAEGETELT 196
QY 178 TPVLPETOE 187
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
197 NQ--PEETHE 204

RESULT 8
QY 72798 PRELIMINARY; PRT; 236 AA.
AC Q72798;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Chondrolectin variant CHODLdeltaE.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22638322; PubMed=12621022;
RA Weng L., Van Bockstaele D.R., Wauters J., Van Marck E., Plum J.,
RA Berneman Z.N., Merregaert J.;
RT "A Novel Alternative Spliced Chondrolectin Isoform Lacking the
RT Transmembrane Domain Is Expressed during T Cell Maturation.";
RL J. Biol. Chem. 278:19164-19170(2003).
DR EMBL; AF523315; AAP43904.1; -.
SQ SEQUENCE 236 AA; 27185 MW; 5110DC80C7C2CD9 CRC64;

Query Match 46.0%; Score 513; DB 4; Length 236;
Best Local Similarity 54.3%; Pred. No. 3.3e-41;
Matches 94; Conservative 28; Mismatches 37; Indels 14; Gaps 3;

QY 25 YFHTSRRLNPFEEAKEARRDGGQLVSISEDEQKLIKFIENLLP-----SDGDFWIGL 79
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
3 YFHELSRVSFQEARLACESEGGVLLSLENAEQKLIESMLQNTKPTGTGSDGDFWIGL 62
QY 80 RREKQSNSTACQDLYAWTDGSIQFRNHYVDEPSCGSEVCVVMYHOPSPAGIGGPM 139
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
63 WRNGDGT-SGACPDLYQWSDGSSQFRNHYTDEPSCGSEKCVVMYHOPSPAGIGGPM 121
QY 140 FQWDDRCNMKNFICKYSDB-----EKPAPVPSREAEGETELTTPVLEEE 184
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
122 YQWDDRCNMKNFICKYSDB-----EKPAPVPSREAEGETELTTPVLEEE 174

RESULT 9

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QY 72799 PRELIMINARY; PRT; 232 AA.
AC Q72799;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Chondrolectin variant CHODL.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22638322; PubMed=12621022;
RA Weng L., Van Bockstaele D.R., Wauters J., Van Marck E., Plum J.,
RA Berneman Z.N., Merregaert J.;
RT "A Novel Alternative Spliced Chondrolectin Isoform Lacking the
RT Transmembrane Domain Is Expressed during T Cell Maturation.";
RL J. Biol. Chem. 278:19164-19170(2003).
DR EMBL; AF523314; AAP43903.1; -.
SQ SEQUENCE 232 AA; 25979 MW; 98B80BDF7C7F439 CRC64;

Query Match 45.2%; Score 504.5; DB 4; Length 232;
Best Local Similarity 61.9%; Pred. No. 2.1e-40;
Matches 91; Conservative 21; Mismatches 28; Indels 7; Gaps 3;

QY 25 YFHTSRRLNPFEEAKEARRDGGQLVSISEDEQKLIKFIENLLP-----SDGDFWIGL 79
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
3 YFHELSRVSFQEARLACESEGGVLLSLENAEQKLIESMLQNTKPTGTGSDGDFWIGL 62
QY 80 RREKQSNSTACQDLYAWTDGSIQFRNHYVDEPSCGSEVCVVMYHOPSPAGIGGPM 139
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
63 WRNGDGT-SGACPDLYQWSDGSSQFRNHYTDEPSCGSEKCVVMYHOPSPAGIGGPM 121
QY 140 FQWDDRCNMKNFICKYSDB-KPAVP 165
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
122 YQWDDRCNMKNFICKYSDB-KPAVP 148

RESULT 10
QY 727A0 PRELIMINARY; PRT; 236 AA.
AC Q727A0;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Chondrolectin variant CHODLdeltaE.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22638322; PubMed=12621022;
RA Weng L., Van Bockstaele D.R., Wauters J., Van Marck E., Plum J.,
RA Berneman Z.N., Merregaert J.;
RT "A Novel Alternative Spliced Chondrolectin Isoform Lacking the
RT Transmembrane Domain Is Expressed during T Cell Maturation.";
RL J. Biol. Chem. 278:19164-19170(2003).
DR EMBL; AF523313; AAP43902.1; -.
SQ SEQUENCE 236 AA; 27115 MW; 9C6CE9A9E7062E2 CRC64;

Query Match 44.8%; Score 500; DB 4; Length 236;
Best Local Similarity 53.2%; Pred. No. 5.8e-40;
Matches 92; Conservative 28; Mismatches 39; Indels 14; Gaps 3;

QY 25 YFHTSRRLNPFEEAKEARRDGGQLVSISEDEQKLIKFIENLLP-----SDGDFWIGL 79
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
3 YFHELSRVSFQEARLACESEGGVLLSLENAEQKLIESMLQNTKPTGTGSDGDFWIGL 62
QY 80 RREKQSNSTACQDLYAWTDGSIQFRNHYVDEPSCGSEVCVVMYHOPSPAGIGGPM 139
Db :|||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
63 WRNGDGT-SGACPDLYQWSDGSSQFRNHYTDEPSCGSEKCVVMYHOPSPAGIGGPM 121

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QY 140 FQWDDRCNMKNFICKYSD-----BKPAVSREAREGETELTTPVLPFE 184
 DB 122 YQWDDRCNMKNYICKYEPENPTAPVEKPYLTNPQGDTHQNVVVVEAVKEE 174

RESULT 11
 Q9W6E1 PRELIMINARY; PRT; 1290 AA.
 ID Q9W6E1 AC Q9W6E1 PRT; 1290 AA.
 DT 01-NOV-1999 (TREMELrel. 12, Created)
 DT 01-NOV-1999 (TREMELrel. 12, Last sequence update)
 DT 01-OCT-2003 (TREMELrel. 25, Last annotation update)
 DE Neurocan core protein.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OC NCBI_TaxID=9031;
 RN [1]
 RN SEQUENCE FROM N.A.
 RP MEDLINE=20309833; PubMed=10851024;
 RA Li H., Leung T.C., Hoffman S., Balsamo J., Lillian J.;
 RT "Coordinate Regulation of Cadherin and Integrin Function by the
 RT Chondroitin Sulfate Proteoglycan Neurocan.";
 RL J. Cell Biol. 149:1275-1288 (2000).
 RL EMBL; AF116856; AAD24546.2; .
 DR HSSP; P08709; 1BF9.
 DR GO; GO:0005509; F:calcium ion binding; IEA.
 DR GO; GO:0005540; F:hyaluronic acid binding; IEA.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR GO; GO:0007155; P:cell adhesion; IEA.
 DR InterPro; IPR000152; Asx hydroxyl S.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR001438; EGF_II.
 DR InterPro; IPR006209; EGF_like.
 DR InterPro; IPR003599; IG_1.
 DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 2.
 DR Pfam; PF00047; ig; 1.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 1.
 DR PRINTS; PR00193; Xlink; 2.
 DR PRINTS; PR0010; EGF_BLOOD.
 DR PRINTS; PR01265; LINKMODULE.
 DR ProDom; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00409; IG; 1.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX HYDROXYL; 1.
 DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
 DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 2.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 DR EGF-like domain.
 KW EGF-like domain.
 SQ SEQUENCE 1290 AA; 138677 MW; 182BD86D0E40BE78 CRC64;

Query Match 16.6%; Score 185; DB 13; Length 1290;
 Best Local Similarity 34.7%; Pred. No. 8.9e-09;
 Matches 50; Conservative 18; Mismatches 42; Indels 34; Gaps 8;

QY 17 QRPCYKVIYFHDTSRLNFEENFEAKEACRGGGLVIESDEQKLEKTIENLLPSDGDGF 76
 1064 QHCYR-VY---SRRESFADPRDCRRRAGHTTSHSPERHGFNSF-----CHENTW 1112

QY 77 IGLREERKQSNSTACQDLVYATGSGISOFENWVVDPS---CGSEYCVVMY-HOPSAPA 132
 DB 1113 IGLNDRIVEQD-----FQWTDNIGLQYENWRENQDHNFFAGGDCVVLVSH 1155

RESULT 12
 Q61830 PRELIMINARY; PRT; 1456 AA.
 ID Q61830 AC Q61830 PRT; 1456 AA.
 DT 01-NOV-1996 (TREMELrel. 01, Created)
 DT 01-NOV-1996 (TREMELrel. 01, Last sequence update)
 DT 01-OCT-2003 (TREMELrel. 25, Last annotation update)
 DE Macrophage mannose receptor precursor.
 DE MRC1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RN SEQUENCE FROM N.A.
 RP STRAIN=C57BL/6;
 RX MEDLINE=93043353; PubMed=1421407;
 RA Harris N., Rits M., Chang G., Ezekowitz R.B.;
 RT "Characterization of the murine macrophage mannose receptor.";
 RL Blood 80:2363-2373 (1992).
 RN [2]
 RN SEQUENCE FROM N.A.
 RP STRAIN=C57BL/6;
 RA Super M.;
 RL Submitted (APR-1992) to the EMBL/GenBank/DBJ databases.
 RL EMBL; Z11974; CAA78028.1; .
 DR PIR; A48925; A48925.
 DR PDB; 1DQO; 10-MAY-00.
 DR PDB; 1DQO; 10-MAY-00.
 DR PDB; 1FWU; 17-JAN-01.
 DR PDB; 1FWU; 17-JAN-01.
 DR MGD; MGI:97142; Mrc1.
 DR GO; GO:0005928; C:cell surface (sensu Magnoliophyta); IDA.
 DR GO; GO:0005537; F:mannose binding; IDA.
 DR GO; GO:0004888; F:transmembrane receptor activity; IDA.
 DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR000562; FN_TypeII.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR008997; RicinB_Like.
 DR InterPro; IPR000772; Ricin_B_lectin.
 DR Pfam; PF00040; fn2; 1.
 DR Pfam; PF00059; lectin_c; 8.
 DR Pfam; PF00652; Ricin_B_lectin; 2.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR PRINTS; PR00033; FNTYPEII.
 DR ProDom; PD000995; FN_Type_II; 1.
 DR SMART; SM00034; CLECT; 8.
 DR SMART; SM00059; FN2; 1.
 DR SMART; SM00458; RICIN; 1.
 DR PROSITE; PS00615; C TYPE LECTIN 1; 6.
 DR PROSITE; PS00041; C TYPE LECTIN_2; 8.
 DR PROSITE; PS00023; FIBROECTIN_2; 1.
 DR PROSITE; PS0231; RICIN_B_LECTIN; 1.
 DR Receptor; Signal.
 KW Receptor; Signal.
 FT SIGNAL 1 18 POTENTIAL.
 FT CHAIN 19 1456 MACROPHAGE MANNOSE RECEPTOR.
 SQ SEQUENCE 1456 AA; 165065 MW; 4EBD3F1B8619A594 CRC64;

Query Match 16.0%; Score 178.5; DB 11; Length 1456;
 Best Local Similarity 25.9%; Pred. No. 4.3e-08;
 Matches 53; Conservative 33; Mismatches 66; Indels 53; Gaps 8;

QY 21 YKVIYFHDTSRLNFEENFEAKEACRGGGLVIESDEQKLEKTIENLLPSDGDGF 80

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Db      807 YKDYQYFSKKEKTDNARRFCQKNGDLATIKSEKKFLWKYI-NKNGQSPYFICGL 865
QY      81 RREKQSNSTACQDLYAWTDGSGISQFRWYVDEPSCGS--EVCVVMYHQPAPAGIGPY 138
Db      866 ISMDKK-----FIWDGSKVDFVATGEPFANDDENCVMY-----TNSGF---- 908
QY      139 MFQWDDRCNMKNFICK---YSDEKPAVPSPREASGETELTTPVLPEETQE----- 187
Db      909 ---WNDINGCYNNFICORHNSINATAMP-----TTPTTPGCGKEGHWLYKVK 954
QY      188 -----EDAKTKFESREALNL 204
Db      955 CFKIFGFANEKRSQDQAQKGL 979

RESULT 13
Q25199 PRELIMINARY; PRT; 1348 AA.
AC Q25199;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Tyrosine kinase receptor.
OS Eukaryota; Metazoa; Cnidaria; Hydrozoa; Hydroids; Anthomedusae;
OC Eukaryota; Metazoa; Cnidaria; Hydrozoa; Hydroids; Anthomedusae;
OC Hydridae; Hydra.
OX NCBI_TaxID=6087;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Irvine;
RX MEDLINE=20209407; PubMed=10744720;
RA Reidling J.C., Miller M.A., Steele R.E.;
RT "Sweet Tooth, a Novel Receptor Protein-tyrosine Kinase with C-type
RT Lectin-like Extracellular Domains."
RL J. Biol. Chem. 275:10323-10330(2000).
DR EMBL; L22612; AAA29218.2; -.
DR HSSP; P11362; 1FGK.
DR GO; GO:0005524; P-ATP binding; IEA.
DR GO; GO:0004713; F-protein-tyrosine kinase activity; IEA.
DR GO; GO:0004872; F-sugar binding; IEA.
DR GO; GO:0005529; F-sugar binding; IEA.
DR GO; GO:0004872; F-sugar binding; IEA.
DR GO; GO:0016740; F-transferase activity; IEA.
DR GO; GO:0006468; P-protein amino acid phosphorylation; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatins ac.
DR InterPro; IPR000719; Prot_kinase.
DR InterPro; IPR001245; Tyr_kinase.
DR InterPro; IPR008266; Tyr_kinase_AS.
DR Pfam; PF00059; lectin_c; 4.
DR Pfam; PF00069; pkinase; 1.
DR PRINTS; PR01504; PNCREATITGAP.
DR ProDom; PD000001; Prot_kinase; 2.
DR SMART; SM00034; CLECT; 4.
DR SMART; SM00213; TyrKc; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 2.
DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 4.
DR PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.
DR PROSITE; PS00111; PROTEIN_KINASE_DOM; 1.
DR PROSITE; PS00109; PROTEIN_KINASE_TYR; 1.
KW ATP-binding; Kinase; Receptor; Transferase; Tyrosine-protein kinase.
SQ SEQUENCE 1348 AA; 158916 MW; 77D2122093227FEF CRC64;

Query Match 15.9%; Score 177.5; DB 5; Length 1348;
Best Local Similarity 28.0%; Pred. No. 4.9e-08;
Matches 47; Conservative 32; Mismatches 46; Indels 43; Gaps 8;

QY      6 LSGQVPC--RGQTQPC-----YKVIYFHTSRLNPEEAKACRRDGGOLVIESDE 57
Db      412 LSHRFICKVRATNYCAEGWTSYRIYCFYISIEFDWFKSFSCQNGNLLSENQEE 471
QY      58 QKLEKFTIENLLPSDGD--FWIGLR-----REEKQSNSTACQDLYAWTDGSGISQFRWY 110

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Db      472 ----NRFIENDLIKONDKYWIGLUNKIWNLYLKQKVR-----FEWSDNTYTFNW 518
QY      111 VDBP--SCGSEVCVVMYHQPAPAGIGPYMFQWDDRCNMKNFICK 156
Db      519 TNQPDNNNGIESCVEMYN-----GWSKCKEVLNGFICK 553

RESULT 14
Q9Y5P9 PRELIMINARY; PRT; 1479 AA.
AC Q9Y5P9;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Endocytic receptor Endo180.
GN ENDO180.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20148849; PubMed=10683150;
RA Sheikh H., Yarwood H., Ashworth A., Isaack C.;
RT "Endo180, an endocytic recycling glycoprotein related to the
RT macrophage mannose receptor is expressed on fibroblasts, endothelial
RT cells and macrophages and functions as a lectin receptor."
RL J. Cell Sci. 113:1021-1032(2000).
DR EMBL; AF134838; AAD30280.1; -.
DR HSSP; P02751; 2FN2.
DR GO; GO:0004872; F-receptor activity; IEA.
DR GO; GO:0005529; F-sugar binding; IEA.
DR GO; GO:0005215; F-transporter activity; IEA.
DR GO; GO:0006810; P-transport; IEA.
DR InterPro; IPR000562; FN_Type_11.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000566; Lipocln_cycFAPP.
DR InterPro; IPR008997; RicinB_like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
DR PRINTS; PR00013; FN1YPE11.
DR ProDom; PD000995; FN_Type_11; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 3.
DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 8.
DR PROSITE; PS00023; FIBONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS00231; RICIN_B_LLECTIN; 1.
KW Receptor.
SQ SEQUENCE 1479 AA; 166669 MW; 9F4BAF355F036FCE CRC64;

Query Match 15.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 6.9e-08;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

QY      7 SGQVCRGGTQPCVKYVYFHTSRLNPEEAKACRRDGGOLVIESDEQKLEKFTIE 66
Db      385 SMQPF-----QGHCVRL-----QAERKSWQESKACLRGGDLVSIHSMAELEFITK 434
QY      67 NLLPSDGDFWIGLRREEKQSNSTACQDLYAWTDGSGISQFRWYVDEPS---CGSEVCV 123
Db      435 QEVE---EWIGL-----NDLKLQMNFEWSDGLSVFTTHHPFEPNFRDSDLCVT 483
QY      124 MYHQPAPAGIGPYMFQWDDRCNMKNFICKYDEKPAVPSPREAE 171
Db      484 IW---GPEG-----RWNDSFCQSLPSICKKAGQLSQGAEEHDHG 520

RESULT 15
Q9UBGO

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ID Q9UBG0 PRELIMINARY; PRT; 1479 AA.
 AC Q9UBG0;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Urokinase receptor-associated protein UPARAP.
 GN KIAA0709.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1] _
 RP SEQUENCE FROM N.A.
 RA Behrendt N., Jensen O.N., Engelholm L.H., Mortz E., Mann M., Dano K.;
 RT "A urokinase receptor-associated protein with specific collagen-
 binding properties.";
 RL Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RX MEDLINE=98403880; PubMed=9734811;
 RA Ishikawa K., Nagase T., Suyama M., Miyajima N., Tanaka A., Kotani H.,
 RA Nomura N., Ohara O.;
 RT "Prediction of the coding sequences of unidentified human genes. X.
 The complete sequences of 100 new cDNA clones from brain which can
 RT code for large proteins in vitro.";
 RL DNA Res. 5:169-176(1998).
 DR EMBL; AF107292; RA14142.1; -;
 DR EMBL; AB044609; BA31684.1; -;
 DR HSSP; P02751; 2FN2.
 DR Genew; HGNC:16875; MRC2.
 DR GO; GO:0016301; F:kinase activity; IEA.
 DR GO; GO:0004872; F:receptor activity; IEA.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR GO; GO:0005215; F:transporter activity; IEA.
 DR GO; GO:0006810; P:transport; IEA.
 DR InterPro; IPR000772; Ricin_B_lectin.
 DR Pfam; PF00040; fn2; 1.
 DR InterPro; IPR000562; FN_Type_II.
 DR PRINTS; PR00013; FNTYPEII.
 DR ProDom; PD000995; FN_Type_II; 1.
 DR SMART; SM00034; CLECT; 8.
 DR SMART; SM00059; FN2; 1.
 DR SMART; SM00458; RICIN; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 3.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 8.
 DR PROSITE; PS00023; FIBONECTIN_2; 1.
 DR PROSITE; PS00213; LIPOCALIN; 1.
 DR PROSITE; PS0231; RICIN_B_LLECTIN; 1.
 KW Kinase; Receptor.
 SQ SEQUENCE 1479 AA; 166654 MW; C7583EA78E2792D1 CRC64;
 Query Match 15.8%; Score 176.5; DB 4; Length 1479;
 Best Local Similarity 30.4%; Pred. No. 6.9e-08;
 Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;
 QY 7 SQGVCRGGTGPCYKVIYFHDTSRLNFEAEKACRRDGGQGLVSIAGEDEQKLEKIE 66
 Db 385 SWQPF-----QGHYKL-----QAEKRSWQESKACLRGGGLVSIHVAELFEITKQIK 434
 QY 67 NLLPSDGFWIGLRRREKQSNSTACQDLYAWTDSISQFRNMYVDEPS---CGSEVCVV 123
 Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSGSLVSFTWHFPFNNFRDLSLDCVT 483
 QY 124 MYHQPAPAGIGGPFYQWDDRCNKNPFICKYSDKPAVPSRAEG 171
 Db 484 IW---GPEG-----RWNDSPCNQSLPSICKAGQAGAAEDHG 520
 RESULT 17
 Q8C4F8
 ID Q8C4F8
 AC Q8C4F8;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)

RESULT 16
 Q64449
 ID Q64449 PRELIMINARY; PRT; 1479 AA.
 AC Q64449;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Lectin lambda.
 GN MRC2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=96355501; PubMed=8702911;
 RA Wu K., Yuan J., Lasky L.A.;
 RT "Characterization of a novel member of the macrophage mannose receptor
 type C lectin family.";
 RL J. Biol. Chem. 271:21323-21330(1996).
 DR EMBL; U56734; AAC52729.1; -;
 DR PUR; T42710; T42710.
 DR HSSP; P02751; 2FN2.
 DR MGD; MG1107818; Mrc2.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR GO; GO:0005215; F:transporter activity; IEA.
 DR GO; GO:0006118; P:electron transport; IEA.
 DR GO; GO:0006810; P:transport; IEA.
 DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR001128; Cytochrome_P450.
 DR InterPro; IPR000562; FN_Type_II.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000566; Lipocln_cytFABP.
 DR InterPro; IPR008997; RicinB_like.
 DR InterPro; IPR000772; Ricin_B_lectin.
 DR Pfam; PF00040; fn2; 1.
 DR Pfam; PF00059; lectin_c; 8.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR PRINTS; PR00013; FNTYPEII.
 DR ProDom; PD000995; FN_Type_II; 1.
 DR SMART; SM00034; CLECT; 8.
 DR SMART; SM00059; FN2; 1.
 DR SMART; SM00458; RICIN; 1.
 DR PROSITE; PS00086; CYTOCHROME_P450; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 3.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 8.
 DR PROSITE; PS00023; FIBONECTIN_2; 1.
 DR PROSITE; PS00213; LIPOCALIN; 1.
 DR PROSITE; PS0231; RICIN_B_LLECTIN; 1.
 SQ SEQUENCE 1479 AA; 167112 MW; 62D456E10B9B48C1 CRC64;
 Query Match 15.3%; Score 170.5; DB 11; Length 1479;
 Best Local Similarity 31.4%; Pred. No. 2.6e-07;
 Matches 48; Conservative 22; Mismatches 48; Indels 35; Gaps 7;
 QY 7 SQGVCRGGTGPCYKVIYFHDTSRLNFEAEKACRRDGGQGLVSIAGEDEQKLEKIE 66
 Db 384 SWQPF-----QGHYRL-----QAEKRSWQESKACLRGGGLVSIHMAELFEITKQIK 433
 QY 67 NLLPSDGFWIGLRRREKQSNSTACQDLYAWTDSISQFRNMYVDEPS---CGSEVCVV 123
 Db 434 QEVE---ELWIGL-----NDLKLQMNFEWSGSLVSFTWHFPFNNFRDLSLDCVT 482
 QY 124 MYHQPAPAGIGGPFYQWDDRCNKNPFICKYSDKPAVPSRAEG 156
 Db 483 IW---GPEG-----RWNDSPCNQSLPSICK 504
 RESULT 17
 Q8C4F8
 ID Q8C4F8
 AC Q8C4F8;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)

Query Match 14.3%; Score 159.5; DB 11; Length 742;
Best Local Similarity 33.1%; Pred. No. 1.3e-06;
Matches 49; Conservative 17; Mismatches 55; Indels 27; Gaps 8;
QY 20 CYKVIYFHTSRLNFEAKEACRRDGGOLVSTESDEQKLEKFIENLLPSDGDGFWIGL 79
Db 618 CY---YF--SLEREILEDKLFCEDEKSSHLVFNINSREEQWIKKH---TVGRESHWIGL 668
QY 80 RREEKQSNSTACQDLYAWTSGISQFRNRYVDEP--SCGSEVCVVMYHQPAPAGIGGP 138
Db 669 TDSEQSE-----WKMLDGGPVDYKWKAKQPDNWSG-----HGFEDCA-GLIY 713
QY 139 MFQWDDRCNMKNFNICKYSDKPAVPS 166
Db 714 AGQWDFQCDEINNFICE--KREAVPS 739
RESULT 22
Q8CJ86 PRELIMINARY; PRT; 142 AA.
ID Q8CJ86
AC Q8CJ86;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Swiss Webster; TISSUE=Skin;
RX MEDLINE=2213304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.,
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
RT type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424802; AAN75597.1;
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeZell.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR NON_TER 1
FT SEQUENCE 142 AA; 16437 MW; 0CB36A393D025EF CRC64;
SQ
Query Match 14.2%; Score 158; DB 11; Length 142;
Best Local Similarity 32.4%; Pred. No. 2.5e-07;
QY 139 MFQWDDRCNMKNFNICKYSDKPAVPS 166
Db 714 AGQWDFQCDEINNFICE--KREAVPS 739

QY 139 MFQWDDRCNMKNFNICKYSDKPAVPS 166
Db 714 AGQWDFQCDEINNFICE--KREAVPS 739
RESULT 20
Q8VIF6 PRELIMINARY; PRT; 134 AA.
ID Q8VIF6
AC Q8VIF6;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Receptor protein-tyrosine kinase (Fragment).
GN HTK28.
OS Hydra magnipapillata (Hydra).
OC Eukaryota; Metazoa; Cnidaria; Hydrozoa; Hydroida; Anthomedusae;
OC Hydrozoa; Hydra.
OX NCBI_TaxID=6085;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=105;
RX MEDLINE=20209407; PubMed=10744720;
RA Redding J.C., Miller M.A., Steele R.E.;
RT "Sweet Tooch, a Novel Receptor Protein-tyrosine Kinase with C-type
RT Lectin-like Extracellular Domains.";
RL J. Biol. Chem. 275:10323-10330(2000).
DR EMBL; AF129528; AAD30040.1; -.
DR HSSP; P22897; 1EGG.
DR GO; GO:0016301; F:kinase activity; IEA.
DR GO; GO:0004713; P:protein-tyrosine kinase activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Kinase; Tyrosine-protein kinase.
FT NON_TER 1
FT NON_TER 134
FT SEQUENCE 134 AA; 15701 MW; E7B7211C891009BC CRC64;
Query Match 14.5%; Score 161.5; DB 5; Length 134;
Best Local Similarity 28.8%; Pred. No. 1.1e-07;
Matches 40; Conservative 23; Mismatches 51; Indels 25; Gaps 5;
QY 20 CYKVIYFHTSRLNFEAKEACRRDGGOLVSTESDEQKLEKFIENLLPSDGDGFWIGL 79
Db 16 CY--FFQNTLOAKNRDASLSQALGHLISIEDQAEFFILNFKDSSMQQDNYWIGL 73
QY 80 RREEKQSNSTACQDLYAWTSGISQFRNRYVDEPS--CGSEVCVVMYHQPAPAGIGGP 137
Db 74 -----NDAGNNREFRWSDDKIQFFNLPAKFNDDQSEQNCV-----ETNSMG-- 116
QY 138 YMFQWDDRCNMKNFNICK 156
Db 117 ----WNDENCDATNGPICK 131
RESULT 21
Q8VIF6 PRELIMINARY; PRT; 742 AA.
ID Q8VIF6
AC Q8VIF6;
DT 01-VAR-2002 (TrEMBLrel. 20, Created)
DT 01-VAR-2002 (TrEMBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Scavenger receptor with C-type lectin.
GN COLEC12 OR SRCL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.

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Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;
QY 25 YFHDTSRLNFEAKACRRDGGQLVSISEDEQKLEFIENLLPSDGFHWIGLRREE 84
DB 24 YFFKSQR-NWMDAVTACKVEKVAQLVIINSDEQ-----TFLOQTSKAKGPTWVGSLDKK 78
QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVGVVMVHQPAPAGIGGPPYMF 140
DB 79 EAT-----WLWVDGSLTSRFFQKYVNRGEPNIGEDCVF-----AGDG----- 118
QY 141 QWDDRCNNMKNPFICKYSDEKPAVPSRE 168
DB 119 -WNDSKCELKFKWICK-----KATPCTE 141

RESULT 23
Q8BHK7 PRELIMINARY; PRT; 142 AA.
AC Q8BHK7;
DT 01-MAR-2003 (T-EMBLrel. 23, Created)
DT 01-MAR-2003 (T-EMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE SIGNR1 (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
SEQUENCE FROM N.A.
RC STRAIN=C57BL/6;
RA Park C.G., Steinman R.M.;
RT "Alternatively Spliced Forms of Mouse DC-SIGN Homologs.";
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF374471; AAL27540.1; -.
DR MGD; MGI:1916415; Cd209b.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR Pfam; PF00059; lectin C; 1.
DR PRINTS; PR00356; ANTI-FREEZEII.
DR SMART; SM00034; CLECT. 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN 2; 1.
SQ SEQUENCE 295 AA; 33888 MW; A491F7D3551A91D0 CRC64;

Query Match 14.2%; Score 158; DB 11; Length 295;
Best Local Similarity 32.4%; Pred. No. 5.9e-07;
Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;
QY 25 YFHDTSRLNFEAKACRRDGGQLVSISEDEQKLEFIENLLPSDGFHWIGLRREE 84
DB 177 YFFKSQR-NWMDAVTACKVEKVAQLVIINSDEQ-----TFLOQTSKAKGPTWVGSLDKK 231
QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVGVVMVHQPAPAGIGGPPYMF 140
DB 232 EAT-----WLWVDGSLTSRFFQKYVNRGEPNIGEDCVF-----AGDG----- 271
QY 141 QWDDRCNNMKNPFICKYSDEKPAVPSRE 168
DB 272 -WNDSKCELKFKWICK-----KATPCTE 294

RESULT 25
Q9DSV4 PRELIMINARY; PRT; 311 AA.
AC Q9DSV4;
DT 01-JUN-2001 (T-EMBLrel. 17, Created)
DT 01-JUN-2001 (T-EMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE 1810030122Rik protein.
GN CD209B OR 1810030122RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Pancreas;
RX MEDLINE=21085660; PubMed=1217851;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Glassi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaudo I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustinich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Monbaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,

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[illegible]


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Db 177 YFFSKSR-NWDAVTACKVKAQLVINSDEQ-----TFLOQTSKAKGPTWMLGSLDKK 231
Qy 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGYPMF 140
Db 232 EAT-----WLWWDGSLTSRFRQKYWNRGEPNNIGEDCVF-----AGDG----- 271
Qy 141 QWDDRCNMKNFKICKYSDKPAVP 165
Db 272 -WNSKCKELKFWICK----KSATP 321

RESULT 31
Q8CJ94
ID Q8CJ94 PRELIMINARY; PRT; 323 AA.
AC Q8CJ94;
DT 01-WAR-2003 (TrEMBLrel. 23, Created)
DT 01-WAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP STRAIN=Swiss Webster; TISSUE=Skin;
RC MEDLINE=22133304; PubMed=12137941;
RX Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424790; AAN75585.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; Antifreeze1.
DR Pfam; PF00059; LECTIN_C; 1.
DR PRINTS; PR00356; ANTI-FREEZE1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
FT NON TER 323
SQ SEQUENCE 323 AA; 36819 MW; EDA0A6E1969AE54 CRC64;

Query Match 13.9%; Score 155; DB 11; Length 323;
Best Local Similarity 32.4%; Pred. No. 1.3e-06;
Matches 47; Conservative 21; Mismatches 43; Indels 34; Gaps 9;

Qy 25 YFHTSRLNFEAKACRRDGGOLVSISEDEQKLEFIENLPSDGFWIGLRREE 84
Db 207 YFFSKSR-NWDAVTACKVKAQLVINSDEQ-----TFLOQTSKAKGPTWMLGSLDKK 261
Qy 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGYPMF 140
Db 262 EAT-----WLWWDGSLTSRFRQKYWNRGEPNNIGEDCVF-----AGDG----- 301
Qy 141 QWDDRCNMKNFKICKYSDKPAVP 165
Db 302 -WNSKCKELKFWICK----KSATP 321

RESULT 32
Q8CJ93
ID Q8CJ93 PRELIMINARY; PRT; 323 AA.
AC Q8CJ93;
DT 01-WAR-2003 (TrEMBLrel. 23, Created)
DT 01-WAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 alpha (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP STRAIN=Swiss Webster; TISSUE=Spleen;
RC MEDLINE=22133304; PubMed=12137941;
RX Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424796; AAN75591.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; Antifreeze1.
DR Pfam; PF00059; LECTIN_C; 1.
DR PRINTS; PR00356; ANTI-FREEZE1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
FT NON TER 323
SQ SEQUENCE 323 AA; 36921 MW; 2E807C247CA4B163 CRC64;

Query Match 13.9%; Score 155; DB 11; Length 323;
```

Q175P9;
AC 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 6.

RESULT 37
Q7TSQ0

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ID Q7TS00 PRELIMINARY; PRT; 504 AA.
AC Q7TS00;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 4.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]_TaxID=10090;
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 4 of mannose receptor precursor-like
gene."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL: AY223871; AAF22985.1; -.
KW Receptor.
SQ SEQUENCE 504 AA; 55995 MW; A964C0C319D778C CRC64;

Query Match 13.9%; Score 155; DB 11; Length 504;
Best Local Similarity 27.8%; Pred. No. 2.2e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;

QY 14 GGTORPCYKVIYFHTSRLN-----FEEAKEACRRDGGQGVLSIESEDEQKLI 61
Db 345 GGAQCATKVGFPFHTCDLRIDGCFWVSPEDTYGAKMKCGKGVLAIESQKVQDIL 404
QY 62 EKFIENLLP-----SDGD-----FWIGLRREEKQNSACQDLYAWTDGSIQFNRWYVD 112
Db 405 AFYLGLETTNEVTDSDFTKFWIGLTYK-----AAKDSFRWTTGHEQSFSPFAG 456
QY 113 EP-SCGSEVCVMYHOPSAPAGIGGPFQWMDRCNMKNFICKYSDE 160
Db 457 QPDNQGFNCVEM--QASA-----AFNWDQCKTRNYICQFAQK 495

RESULT 38
Q7TSQ1 PRELIMINARY; PRT; 534 AA.
AC Q7TSQ1;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]_TaxID=10090;
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 2 of mannose receptor precursor-like."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL: AY223869; AAP22983.1; -.
KW Receptor.
SQ SEQUENCE 534 AA; 55895 MW; 9B0AF013370793FF CRC64;

Query Match 13.9%; Score 155; DB 11; Length 534;
Best Local Similarity 27.8%; Pred. No. 2.4e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;

QY 14 GGTORPCYKVIYFHTSRLN-----FEEAKEACRRDGGQGVLSIESEDEQKLI 61
Db 375 GGAQCATKVGFPFHTCDLRIDGCFWVSPEDTYGAKMKCGKGVLAIESQKVQDIL 434
QY 62 EKFIENLLP-----SDGD-----FWIGLRREEKQNSACQDLYAWTDGSIQFNRWYVD 112
Db 435 AFYLGRLTNEVTDSDFTKFWIGLTYK-----AAKDSFRWTTGHEQSFSPFAG 486
QY 113 EP-SCGSEVCVMYHOPSAPAGIGGPFQWMDRCNMKNFICKYSDE 160

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Db 487 QPDNQGFNCVEM--QASA-----AFNWDQCKTRNYICQFAQK 525

RESULT 39
Q90WM2 PRELIMINARY; PRT; 1152 AA.
ID Q90WM2
AC Q90WM2;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Brevican soluble core protein.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipiloidea; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]_TaxID=8355;
RP SEQUENCE FROM N.A.
RA MEDLINE=21184128; PubMed=11287204;
RA Sander V., Mullegger J., Lepperdinger G.;
RT "Xenopus brevican is expressed in the notochord and the brain during
early embryogenesis."
RL Mech. Dev. 102:251-253(2001).
DR EMBL: AF325334; AAK40085.1; -.
DR GO: GO:0005540; F:hyaluronic acid binding; IEA.
DR GO: GO:0005529; F:sugar binding; IEA.
DR GO: GO:0007155; P:cell adhesion; IEA.
DR InterPro: IPR002353; Antifreeze.
DR InterPro: IPR00742; EGF like.
DR InterPro: IPR006209; EGF like.
DR InterPro: IPR006210; IEGF.
DR InterPro: IPR003599; Ig-like.
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR001304; Lectin_C.
DR InterPro: IPR00538; Link.
DR InterPro: IPR000436; Sushi_SCR_CCP.
DR Pfam: PF00008; EGF; 1.
DR Pfam: PF00059; lectin_c; 1.
DR Pfam: PF00084; sushi; 1.
DR Pfam: PF00193; Xlink; 2.
DR PRINTS: PR00356; ANTIFREEZE1.
DR PRINTS: PR01265; LINKMODULE.
DR ProDom: PD000918; Link; 2.
DR SMART: SM00032; CCP; 1.
DR SMART: SM00034; CLECT; 1.
DR SMART: SM00181; EGF; 1.
DR SMART: SM00409; IG; 1.
DR SMART: SM00445; LINK; 2.
DR PROSITE: PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE: PS00641; C_TYPE_LECTIN_2; 1.
DR PROSITE: PS00022; EGF_1; 1.
DR PROSITE: PS01186; EGF_2; 1.
DR PROSITE: PS00835; IG_LIKE; 1.
DR PROSITE: PS00290; IG_MHC; 1.
DR PROSITE: PS01241; LINK; 2.
KW EGF-like domain.
SQ SEQUENCE 1152 AA; 126860 MW; 196947BD8F9B216D CRC64;

Query Match 13.9%; Score 155; DB 13; Length 1152;
Best Local Similarity 30.6%; Pred. No. 5.9e-06;
Matches 49; Conservative 17; Mismatches 56; Indels 38; Gaps 9;

QY 20 CVKVIYFHTSRLNFEAKEACRRDGGQGVLSIESEDEQKLIEXFIENLLPSDGF-WIG 78
Db 973 CYK--HFH---ARSWEEAENFCREAGHLTSINTPEQ---AFLSN---KYNDYQWTG 1020
QY 79 LRRREEKQNSACQDLYAWTDGSIQFNRWYVDPS---CGSEVCVMYHOPSAPAGIG 135
Db 1021 L-----NDRITIEGDFQNSDGNPLLFENWAHQDPDSYFLSGENCVMVW----- 1062
QY 136 GPFYQWMDRCNMKNFICKYS---DEKPAVPSREAG 171

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DR PROSITE; PS00010; ASX_HYDROXYL; 3.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
DR PROSITE; PS01186; EGF_2; 3.
DR PROSITE; PS01187; EGF_CA; 3.
KW SIGNAL; Receptor.
FT SIGNAL 1 21 POTENTIAL.
FT CHAIN 22 652 C1Q RECEPTOR PROTEIN.
SQ SEQUENCE 652 AA; 68521 MW; 97549BA62CAF225E CRC64;

Query Match 13.6%; Score 151.5; DB 4; Length 652;
Best Local Similarity 24.4%; Pred. No. 6.5e-06;
Matches 50; Conservative 38; Mismatches 74; Indels 43; Gaps 9;

QY 5 LLSGOP-----VCGGTQPCYKVIYFHTSRRLNFEBAKEACRRDGGQGLVSI E 53
DB 13 LLTQFGAGTGADTEAVCVG---TACYTA-----HSGKLSAAEAQNHQNGGNLATVK 64

QY 54 SEDEQKLIKFIENLLPSD-----GDFWIGLRREEKQSNSTACQDLYAWT-DGSISQ 105
DB 65 SKEEAHVQVRLAQLLRREALTARMSKFWIGLQREKGLDPSLPLKGFVWGGEDTP 124

QY 106 FRNIVYD-PPSCGSEVVM---YQPSAPAGIGGYPYFQWDDRCNMKN-----FI 154
DB 125 YSNWHKRLNSICSKRCVSLLDLSQPLPSRLP-----KWSGPGCGSPGSPGSGNIEGFV 179

QY 155 CKYSDKPAVPSREABGEETELTTP 179
DB 180 CFFSPKGMCRPLALGPGGVYTTTP 204

RESULT 46
QSHY12
ID QSHY12 PRELIMINARY; PRT; 399 AA.
AC QSHY12
DT 01-MAR-2003 (T-EMBLrel. 23, Created)
DT 01-MAR-2003 (T-EMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Putative CD209L1 protein.
GN CD209L1.
OS Hylobates lar (Common gibbon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
OX NCBI_TaxID=9580;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=B23;
RX PubMed=12477827;
RA Bashirova A.A., Wu L., Cheng J., Martin T.D., Martin M.P.,
RA Benveniste R.E., Lifson J.D., KewalRamani V.N., Hughes A.,
RA Carrington M.;
RT "Novel Member of the CD209 (DC-SIGN) Gene Family in Primates.";
RL J. Virol. 77:217-227(2003).
DR EMBL; AY078813; AAL89528.1; JOINED.
DR EMBL; AY078807; AAL89528.1; JOINED.
DR EMBL; AY078808; AAL89528.1; JOINED.
DR EMBL; AY078809; AAL89528.1; JOINED.
DR EMBL; AY078810; AAL89528.1; JOINED.
DR EMBL; AY078811; AAL89528.1; JOINED.
DR EMBL; AY078812; AAL89528.1; JOINED.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PRO0356; ANTIFREEZII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
SQ SEQUENCE 399 AA; 45404 MW; DEC669244205B27A CRC64;

Query Match 13.5%; Score 150.5; DB 6; Length 399;
Best Local Similarity 32.4%; Pred. No. 4.5e-06;
Matches 48; Conservative 19; Mismatches 48; Indels 33; Gaps 9;

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QY 25 YFHTSRRLNFEBAKEACRRDGGQGLVSI ESEDEQKLIKFIENLLPSDGFWIGLRREE 84
DB 280 YFISNSQR-NWHDSTVATCREVGAGLVVKSAEQNFLLQSSR---SNRFAMWGLSDLNQ 335

QY 85 QKSNSTACQDLYAWTDGS--ISQF-RNIVYDEP-SGSEVVCVMYHQPAPAGIGGYPYMF 140
DB 336 -----EGTWQWVDGSPSSSFQYWNSEGFNNSGDDCAEF-----SSGS----- 375

QY 141 QWDDRCNMKNFICKYSDKPAVPSRE 168
DB 376 -WDDNRCNVDNYWICK-----KPTACFRD 398

RESULT 47
Q28008
ID Q28008 PRELIMINARY; PRT; 197 AA.
AC Q28008;
DT 01-NOV-1996 (T-EMBLrel. 01, Created)
DT 01-NOV-1996 (T-EMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE C-type lectin homolog precursor.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RA Neame P.J., Boynton R.E.;
RT "C-type lectin homolog from bovine cartilage.";
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; U22298; AAC18614.1; -.
DR HSP; P05452; ITN3
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007157; P:pheterophilic cell adhesion; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
KW Lectin; Signal.
FT SIGNAL 1 24 POTENTIAL.
FT CHAIN 25 197 C-TYPE LECTIN HOMOLOG.
RP SEQUENCE 197 AA; 22215 MW; AAAC4280F41AC0F4 CRC64;

Query Match 13.5%; Score 150; DB 6; Length 197;
Best Local Similarity 25.0%; Pred. No. 2.1e-06;
Matches 38; Conservative 24; Mismatches 56; Indels 24; Gaps 4;

QY 9 QPYCRGGTQ--RPGYKVIYFHTSRRLNFEBAKEACRRDGGQGLVSI ESEDEQKLIKFI E 66
DB 65 QTVCLRGTRFKKCYLA-----AEGLKHFHEANEDCISKGGTLVVPKSADEINALRDYKG 119

QY 67 NLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNIVYDEPSCGSEVVCVMYH 126
DB 120 RSLPGVNDVFWLGI-----NDMVAEGKFPVDINGLAISFLNWDQAPNGKRENCALFS 171

QY 127 QPSAPAGIGGYPYFQWDDRCNMKNFICKY 158
DB 172 QSA-----QGWSDKDEACHSKRYICEFT 194

RESULT 48
Q8JZX6
ID Q8JZX6 PRELIMINARY; PRT; 158 AA.
AC Q8JZX6;
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE RIKEN cDNA 3110037K17 gene.
OS Mus musculus (Mouse).

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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OX Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RA TISSUE=Mammary gland;
RC Strausberg R.;
RL Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
DR EMBL; BC034893; AAH34893.1; -
DR MGd; MGI:1920399; 3110037K17Rik.
DR GO; GO:0004190; F:aspartic-type endopeptidase activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR002353; AntifreezeZell.
DR InterPro; IPR001969; Aspprotease_AS.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c_1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00141; ASP_PROTEASE; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C-TYPE_LECTIN_2; 1.
SQ SEQUENCE 158 AA; 18325 MW; B34DBA47FDA4F76B CRC64;

Query Match 13.4%; Score 149.5; DB 11; Length 158;
Best Local Similarity 29.3%; Pred. No. 1.8e-06;
Matches 4; Conservative

OY 18 RPCKVLYIHTDSRLNFERAKACRRDGGOLVSIESDEOKLEKIENLLPSDGDFWI 77
Db :|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:
33 KPFGSYCYFTSTDLVASNESKCNCFMGAHLVVHSQEEQ----DFITGILDGTGYFI 88
OY 78 GLRRREBKQSNTAQCLYLAWTDGSISQFRN--WVDPEPCGVVMVHQSPAPAGIG 135
Db |||||:|||||-----WQWDTFDDNTTFFHKGEPPSDNEQCVCVIINHRSQTGWG-- 137
OY 136 GPYNFWQNDDRKNMNPIC 155
Db |:::||:|:|:|
138 -----WS DIPCSDKQNSIC 151

RESULT 49
Q22136 PREIMINARY; PRT; 459 AA.

ID Q22136 AC
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DI 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE T04A8.3 protein.
GN T04A8.3.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhaditoidea;
OX Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RA Palmer S.;
RL Submitted (AUG-1994) to the EMBL/GenBank/DDBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
investigating biology."
RL Science 282:2012-2018(1998).
DR EMBL; Z35663; CAAB4726.1; -.
DR PIR; T24425; T24425.
DR WormPep; T04A8.3; CE01072.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c_1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C TYPE LECTIN 2; 1.
DR DR

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SQ  SEQUENCE  459 AA;  53253 MW;  BD173368D31732A0 CRC64;

Query Match      13.4%;  Score 149.5;  DB 5;  Length 459;
Best Local Similarity 28.5%;  Pred. No. 6.6e-06;
Matches 49;  Conservative 23;  Mismatches 52;  Indels 48;  Gaps 9;

QY  20  CYKVIYFHDTSRLNFFEEAKEACRRDGGQVLVSIESDEQKLIKFKPIENLLPSDGF--WI 77
Db  287  CHK--YVHDS--MNNDAEKKNDNGAHLSSFTTYEELKLLDEMILEVYPNNDNIAVWL 342
QY  78  GLRREKQSNSTACQDLYAWTDGSIQSQRNWWYDEFS--CGSEVCVVMYHQPSPAPAGIG 107
Db  343  GAKEREE-----CGDLSKNFTGGVSKDIHDFCARSRVFEWQNG--VAQPPFIIVGDGFD 394
QY  108  NW---YVDEPSCGSEVCVW--MYHQPSPAPAGIGGYFMQWMDRRCNMKNFIC 155
Db  395  YWAEKYEPNHSITDSERCLVQMSGMSVWYGDNKPRNMQINDIYCNVEFKELC 446

RESULT 50
Q90W18 PRELIMINARY; PRT; 158 AA.
AC Q90W18
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C-type lectin-like protein 1.
OS Bungarus fasciatus (Banded krait).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Elapidae; Bungarinae; Bungarus.
OX NCBI_TaxID=8613;
RN [1]
RP SEQUENCE FROM N. A.
RC TISSUE=Venom gland;
RA Zha H.-G., Zhang Y.;
RT "cDNA cloning and characterization of C-type lectin-like proteins from
RT Elapidae snakes.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF354270; AAK43584.1; .
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007157; P:heterophilic cell adhesion; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Fancreatis_ac.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
KW Lectin.
SQ SEQUENCE 158 AA; 18638 MW; ECF85936FA4182B8 CRC64;

Query Match      13.4%;  Score 149;  DB 13;  Length 158;
Best Local Similarity 28.4%;  Pred. No. 2e-06;
Matches 40;  Conservative 20;  Mismatches 55;  Indels 26;  Gaps 5;

QY  20  CYKVIYFHDTSRLNFFEEAKEACR--RDGGQVLVSIESDEQKLIKFKPIENLLPSDGFHWI 77
Db  37  CYKVFSEKHT-----WFDAMYCRKFKPGCHLASLNADAVESEYISDYLTCQGHWI 91
QY  78  GLRREKQSNSTACQDLYAWTDGSIQSQRNWWYDEFS--CGSEVCVVMYHQPSPAPAGIG 135
Db  92  GLRDTKKKY-----IWEWTDSRDTDFLPWRKQDPDFNNNEFCVEI-----VN 134
QY  136  GPYMFQWMDRRCNMKNFICK 156
Db  135  FTGYLQWMDNDCALRPFLCQ 155

Search completed: September 9, 2004, 22:38:52
Job time : 119 secs

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Search completed: September 9, 2004, 22:38:52
Job time : 119 secs

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OM protein - protein search, using sw model
Run on: September 9, 2004, 22:31:58 ; Search time 40 Seconds
(without alignments)
495.386 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLSQPVRGGTQPC.....BEDAKTFKSRREALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : PIR_78:*
1: Pir1:*
2: Pir2:*
3: Pir3:*
4: Pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	182	16.3	1456	1 A36563	mannose receptor p
2	178.5	16.0	1455	1 A48925	mannose receptor p
3	177	15.9	1268	2 S52781	neurocan - mouse
4	174.5	15.7	1843	2 T14274	versican precursor
5	174.5	15.7	3381	2 T42389	versican precursor
6	174	15.6	1257	2 S28764	neurocan precursor
7	174	15.6	2397	1 A55535	versican precursor
8	174	15.6	2409	1 A60979	versican precursor
9	171	15.3	3562	2 A47171	chondroitin sulfat
10	170.5	15.3	1479	2 T42710	mannose receptor
11	158.5	14.2	1340	2 A3808	proteoglycan core
12	158.5	14.2	2327	2 T42630	aggreccan - bovine
13	158.5	14.2	2415	1 A39086	aggreccan precursor
14	154.5	13.9	612	2 B42755	E-selectin precurs
15	153.5	13.8	2124	2 A28452	proteoglycan core
16	152	13.6	912	2 A54423	brevican precursor
17	149.5	13.4	459	2 T24425	hypothetical prote
18	149	13.4	321	1 LNUER	IGF FC receptor II
19	148.5	13.3	330	2 T46256	brevican - human
20	148.5	13.3	2332	1 A55182	aggreccan precursor
21	148	13.3	253	2 E89130	protein F52E1.2 [i
22	147	13.2	883	2 S57653	brevican precursor
23	146.5	13.1	162	1 LNUC1	lectin BRA3-1 prec
24	146	13.1	2109	1 I50421	aggreccan precursor
25	145.5	13.0	742	2 JC7595	scavenger receptor
26	145	13.0	883	2 S49126	brevican precursor
27	144.5	13.0	173	2 S10548	lectin - barnacle
28	144.5	13.0	372	2 S23936	L-selectin precurs
29	144.5	13.0	404	2 A46274	HIV gp120-binding

30 143.5 12.9 129 2 JC4329
31 143.5 12.9 372 1 A32375
32 143.5 12.9 463 2 T26655
33 142.5 12.8 131 2 JC5058
34 142 12.7 1487 2 S48719
35 141.5 12.7 331 1 LNMSE
36 140.5 12.6 162 1 LNUC3
37 140 12.6 370 2 S22124
38 139 12.5 248 1 LNUHPS
39 139 12.5 248 1 LNUHPS
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41 139 12.5 283 1 LNUHPS
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43 138.5 12.4 202 2 JC4031
44 138 12.4 280 2 T29200
45 137.5 12.3 309 1 S34198
46 137.5 12.3 372 2 JC5377
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48 137 12.3 248 2 I51921
49 136.5 12.2 308 2 T29754
50 136 12.2 175 2 A37194

ALIGNMENTS

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C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
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QY 81 RREEKQNSTACQDLYAWTDGSGISQFRNMYVDEPSCGS--EYCVVMYHOPSAPIGGPY 138
DB 866 ISLDKK-----FAWMDGSKVDVSWATGEPNFANDENCVTMY-----SNSGF--- 908
QY 139 MFOWNDRCKMKNKFNICKYSDK-----PAVPREAAGEBETELTTPVLPPEOTQ----- 187
DB 909 ---WNDINGCPNFAICQHRHNSINATYMP-----TMPSPVSGCKEGWNFYSN 954
QY 188 -----EDAKKTFKESREAAAL 202
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RESULT 2
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manose receptor precursor, macrophage - mouse
C:Species: Mus musculus (house mouse)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: A48925; S21320; PC2245
R:Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.A.
Biochem. Biophys. Res. Commun. 198, 682-692, 1994
B:800 80, 2363-2373, 1992
A:Title: Characterization of the murine macrophage mannose receptor: demonstration that
A:Reference number: A48925; MUID:93043353; PMID:1421407
A:Accession: A48925
A>Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-1455 <HA2>
A:Experimental source: peritoneal macrophage
A>Note: sequence extracted from NCBI backbone (NCBIP:118733)
R:Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.A.
submitted to the EMBL Data Library, April 1992
A:Description: Characterization of the murine macrophage mannose receptor: Demonstration
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A:Accession: S21320
A>Status: preliminary
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A:Cross-references: EMBL:Z11974; NID:G52997; PIDN:CAA78028.1; PID:G52998
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Biochem. Biophys. Res. Commun. 198, 682-692, 1994
A:Title: The exon-intron structure and chromosomal localization of the mouse macrophage
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C:Keywords: membrane protein; receptor
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DB 806 YKDYQYFSEKETMDNARFCRNGFDLVSQSEKFLWKYI-NKNGQSPYFIGML 864
QY 81 RREEKQNSTACQDLYAWTDGSGISQFRNMYVDEPSCGS--EYCVVMYHOPSAPIGGPY 138
DB 866 ISLDKK-----FAWMDGSKVDVSWATGEPNFANDENCVTMY-----SNSGF--- 908
QY 139 MFOWNDRCKMKNKFNICKYSDK-----PAVPREAAGEBETELTTPVLPPEOTQ----- 187
DB 909 ---WNDINGCPNFAICQHRHNSINATYMP-----TMPSPVSGCKEGWNFYSN 954
QY 188 -----EDAKKTFKESREAAAL 202
DB 955 KCFKIFGFMEERKNQWQARKACI 978

RESULT 2
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manose receptor precursor, macrophage - mouse
C:Species: Mus musculus (house mouse)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: A48925; S21320; PC2245
R:Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.A.
Biochem. Biophys. Res. Commun. 198, 682-692, 1994
B:800 80, 2363-2373, 1992
A:Title: Characterization of the murine macrophage mannose receptor: demonstration that
A:Reference number: A48925; MUID:93043353; PMID:1421407
A:Accession: A48925
A>Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-1455 <HA2>
A:Experimental source: peritoneal macrophage
A>Note: sequence extracted from NCBI backbone (NCBIP:118733)
R:Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.A.
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A:Residues: 1-302 'W', 303-1117, 'E', 1119-1455 <HA2>
A:Cross-references: EMBL:Z11974; NID:G52997; PIDN:CAA78028.1; PID:G52998
R:Harris, N.; Peters, L.L.; Eicher, E.M.; Rits, M.; Raspberry, D.; Eichbaum, Q.G.; Super
Biochem. Biophys. Res. Commun. 198, 682-692, 1994
A:Title: The exon-intron structure and chromosomal localization of the mouse macrophage
A:Reference number: PC2245; MUID:94128116; PMID:8297379
A:Accession: PC2245
A:Molecule type: mRNA
A:Residues: 35-105 <HA3>
C:Genetics:
A:Gene: Mrcl
A:Map position: 2
C:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C:Keywords: membrane protein; receptor
F:168-209/Domain: fibronectin type II repeat homology <2F9>
F:361-485/Domain: C-type lectin homology <LCH1>
F:943-1077/Domain: C-type lectin homology <LCH2>

```

```

DB 865 ISMDKK-----FIWMDGSKVDVFWATGEPNFANDENCVTMY-----TNSGF--- 907
QY 139 MFOWNDRCKMKNKFNICKYSDK-----PAVPREAAGEBETELTTPVLPPEOTQ----- 187
DB 908 ---WNDINGCPNFAICQHRHNSINATAMP-----TTPTTPGGCKEGWHLKXK 953
QY 188 -----EDAKKTFKESREAAALN 204
DB 954 CFKIFGFANEEKKSQWQARQACKGL 978

RESULT 3
S52781
neurocan - mouse
C:Species: Mus musculus (house mouse)
C:Date: 19-May-1995 #sequence_revision 21-Jul-1995 #text_change 04-Feb-2000
C:Accession: S52781
R:Rauch, U.; Forberg, N.; Kulbe, G.; Arnold-Ammer, I.; Faessler, R.
submitted to the EMBL Data Library, February 1995
A:Description: Amino acid sequence of mouse neurocan and brevicin and their different ex
A:Reference number: S52781
A:Accession: S52781
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-1268 <PAU>
A:Cross-references: EMBL:X84727; NID:G758629; PIDN:CAA59216.1; PID:G758630
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGI
F:176-353/Domain: link protein repeat homology <LNK1>
F:274-355/Domain: link protein repeat homology <LNK2>
F:964-995/Domain: EGF homology <EGF>
F:1040-1160/Domain: C-type lectin homology <LCH>
F:1167-1223/Domain: complement factor H repeat homology <FHD>

Query Match      15.9%; Score 177; DB 2; Length 1288;
Best Local Similarity 31.5%; Pred. No. 2.2e-07;
Matches 45; Conservative 17; Mismatches 49; Indels 32; Gaps 6;

QY 17 QRCYKVIYFHDTSRRLNFEAEACRRDGGQVLVSIESDEQKLEKFIENLLPSDGFHW 76
DB 1048 QSHCYR--YF--AHRAMEDAERDCRRAGHLTSVHSPSEHKFINSF-----GHENSW 1096
QY 77 IGLRREEKQNSTACQDLYAWTDGSGISQFRNMYVDEPS---CGSEVGVVMYHQPSAPAG 133
DB 1097 IGLNDRTVESD-----FQWTDNTGLOVNRERQPDNFFAGGEDCVVMVAHESG--- 1145
QY 134 IGGPYMFQWNRDRCNMKNPFICK 156
DB 1146 -----RMNDVPCNLYPVCK 1161

RESULT 4
T14274
versican precursor, splice form V2 - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 05-May-2000
R:Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
J. Biol. Chem. 273, 15758-15764, 1998
A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A:Reference number: Z17954; MUID:98288320; PMID:9624174
A:Accession: T14274
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1643 <SCH>
A:Cross-references: EMBL:AF060458; NID:G3253303; PID:G3253304; PIDN:AAC24360.1
A:Experimental source: brain
C:Keywords: glycoprotein
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-1643/Product: versican, splice form V2 #status predicted <MAT>
F:57,331,352,817,965,1017,1333,1616,1626/Binding site: carbohydrate (Asn) (covalent) #sta

Query Match      15.7%; Score 174.5; DB 2; Length 1643;
Best Local Similarity 25.5%; Pred. No. 4.8e-07;

```

Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;
QY 17 QRPCVKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 75
DB 1424 QGQCYK--YF---AERRTWDAARECRILQGAHLTSLSHSEQMFVNRV-----GHDYQ 1471
QY 76 WIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVDEP-----SCGSEVCVVMYHQPAP 131
DB 1472 WIGL-----NDKMFHDFRWTGSLQYENWRPNQDPSFSTGDCVVIWHENG-- 1521
QY 132 AGIGPFYMFQWDDRCNKNFNICKYS-----DEKPAVPSRAEAG- 172
DB 1522 -----QWMDVPCNYHLTYTCKKGTVACGPPVVENAKTFGKMKRYEINSLIRVHC 1572
QY 173 -----ETELTT-----PVL-----PEETOEDAKTKTFKESRAALN 203
DB 1573 KDGFIQRHLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSAKDN 1623
RESULT 5
T42389
N:Alternates precursor, splice form V0 - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 05-May-2000
C:Accession: T42389
J. Biol. Chem. 273, 15758-15764, 1998
A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A:Reference number: Z17954; MUID:98288320; PMID:9624174
A:Accession: T42389
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-3381 <SCH>
A:Cross-references: EMBL:AF060456; NID:G3253299; PID:G3253300; PIDN:AAC24358.1
C:Superfamily: chicken chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein
C:Keywords: chondroitin sulfate proteoglycan; signal sequence #status predicted <SIG>
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-3381/Product: versican, splice form V0 #status predicted <MAT>
F:57,331,352,817,965,1017,1333,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,26
Query Match 15.7%; Score 174.5; DB 2; Length 3381;
Best Local Similarity 25.5%; Pred. No. 1.1e-06;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;
QY 17 QRPCVKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 75
DB 3162 QGQCYK--YF---AERRTWDAARECRILQGAHLTSLSHSEQMFVNRV-----GHDYQ 3209
QY 76 WIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVDEP-----SCGSEVCVVMYHQPAP 131
DB 3210 WIGL-----NDKMFHDFRWTGSLQYENWRPNQDPSFSTGDCVVIWHENG-- 3259
QY 132 AGIGPFYMFQWDDRCNKNFNICKYS-----DEKPAVPSRAEAG- 172
DB 3260 -----QWMDVPCNYHLTYTCKKGTVACGPPVVENAKTFGKMKRYEINSLIRVHC 3310
QY 173 -----ETELTT-----PVL-----PEETOEDAKTKTFKESRAALN 203
DB 3311 KDGFIQRHLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSAKDN 3361
RESULT 6
S28764
neurocan precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 22-Nov-1993 #sequence_revision 01-Sep-1995 #text_change 04-Feb-2000
C:Accession: S28764
R. Baugh, U.; Karthikeyan, L.; Maurel, P.; Margolis, R.U.; Margolis, R.K.
J. Biol. Chem. 267, 19536-19547, 1992
A:Title: Cloning and primary structure of neurocan, a developmentally regulated, aggrega
A:Reference number: S28764; MUID:92406907; PMID:1326557
A:Accession: S28764

A:Molecule type: mRNA
A:Residues: 1-1257 <RAU>
A:Cross-references: EMBL:M97161; NID:G205649; PIDN:AAC37679.1; PID:G205650
C:Superfamily: agriscan; C-type lectin homology; complement factor H repeat homology; EG
C:Keywords: chondroitin sulfate proteoglycan; glycoprotein
F:1-22/Domain: signal sequence #status predicted <SIG>
F:23-1257/Product: neurocan #status predicted <MAT>
F:176-253/Domain: link protein repeat homology <LNK1>
F:274-355/Domain: link protein repeat homology <LNK2>
F:364-366/Region: cell attachment (R-G-D) motif
F:953-984/Domain: EGF homology <EGF>
F:1029-1149/Domain: C-type lectin homology <LCH>
F:1156-1212/Domain: complement factor H repeat homology <FHD>
F:121,339,737,967,1164/Binding site: carboxydrate (Asn) (covalent) #status predicted
F:372,410/Binding site: chondroitin sulfate (Ser) (covalent) #status predicted
F:944/Binding site: chondroitin sulfate (Ser) (covalent) #status experimental
Query Match 15.6%; Score 174; DB 2; Length 1257;
Best Local Similarity 30.8%; Pred. No. 3.9e-07;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;
QY 17 QRPCVKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLEKFIENLLPSDGF 76
DB 1037 QGHCYR--YF---AHRRAWEDAERDCRRAGHLTSVHSPEHKFINSF-----GHNSW 1085
QY 77 IGLRRREKQSNSTACODLYAWTDGSIQFRNMYVDEP-----CGSEVCVVMYHQPAPAG 133
DB 1086 IGLNDRYVERD-----FCWTDNTGLQYENWRPNQDPSFSTGDCVVIWHENG--- 1134
QY 134 IGGPFYMFQWDDRCNKNFNICK 156
DB 1135 -----RWMDVPCNYLPIVCK 1150
RESULT 7
A55535
N:Alternates precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: A55535
R. Ito, K.; Shinomura, T.; Zako, M.; Ujita, M.; Kimata, K.
J. Biol. Chem. 270, 958-965, 1995
A:Title: Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generate
A:Reference number: A55535; MUID:95122551; PMID:7822336
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-2397 <RES>
A:Cross-references: GB:D16263; NID:G662460; PIDN:BAA03796.1; PID:G862461
C:Superfamily: versican; C-type lectin homology; complement factor H repeat homology; EG
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-1654/Domain: versican #status predicted <MAT>
F:167-244/Domain: link protein repeat homology <LNK1>
F:265-346/Domain: link protein repeat homology <LNK2>
F:2035-2126/Domain: EGF homology <EG1>
F:2133-2164/Domain: EGF homology <EG2>
F:2171-2291/Domain: C-type lectin homology <LCH>
F:2298-2354/Domain: complement factor H repeat homology <FHD>
Query Match 15.6%; Score 174; DB 1; Length 2397;
Best Local Similarity 28.5%; Pred. No. 8.3e-07;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY 17 QRPCVKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 75
DB 2179 QGQCYK--YF---AHRRTWDAARECRILQGAHLTSLSHSEQMFVNRV-----GHDYQ 2226
QY 76 WIGLRRREKQSNSTACODLYAWTDGSIQFRNMYVDEP-----SCGSEVCVVMYHQPAP 131
DB 2227 WIGL-----NDKMFHDFRWTGSLQYENWRPNQDPSFSTGDCVVIWHENG-- 2276

QY 132 AGIGGPFYFQWDRDRCNMKNFICKYS-----DEKPAVPSREAEGE 172
 Db 2277 -----QWNVDPVPCNYHLTYTCKGTVACGGPPVVENAKTFGK 2312

RESULT 8
 A60979
 versican precursor - human
 N/Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
 N/Contains: glial hyaluronate-binding protein
 C/Species: Homo sapiens (man)
 C/Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 19-Jan-2001
 C/Accession: S06014; S43921; A60979; A30358; A29348; A45131; I54179
 R/Zimmermann, D.R.; Ruoslahti, E.
 EMBO J. 8, 2975-2981, 1989

A/Title: Multiple domains of the large fibroblast proteoglycan, versican.
 A/Reference number: S06014; MUID:50059882; PMID:2583089
 A/Accession: S06014
 A/Molecule type: mRNA
 A/Residues: 1-2409 <ZIM>
 A/Cross-references: GB:X15998; NID:937662; PIDN:CAA34128.1; PID:G37663
 R/Yao, L.Y.; Moody, C.; Schoenher, E.; Wight, T.N.; Sandell, L.J.
 Matrix Biol. 14, 213-225, 1994

A/Title: Identification of the proteoglycan versican in aorta and smooth muscle cells by
 A/Reference number: S43921; MUID:95005762; PMID:7921538
 A/Accession: S43921
 A/Molecule type: mRNA
 A/Residues: 208-440;1094-1385;1910-2246 <YAO>
 R/Bignami, A.; Lane, W.S.; Andrews, D.; Dahl, D.
 Brain Res. Bull. 22, 67-70, 1989

A/Title: Structural similarity of hyaluronate binding proteins in brain and cartilage.
 A/Reference number: A60979; MUID:89229983; PMID:2469524
 A/Accession: A60979
 A/Molecule type: protein
 A/Residues: 171-210;289-303 <BIG>
 R/Perides, G.; Lane, W.S.; Andrews, D.; Dahl, D.; Bignami, A.
 J. Biol. Chem. 264, 5981-5987, 1989

A/Title: Isolation and partial characterization of a glial hyaluronate-binding protein.
 A/Reference number: A30358; MUID:89174663; PMID:2466833
 A/Accession: A30358
 A/Molecule type: protein
 A/Residues: 24-50;80-87, 'D', 89-119;128-155;167-218;229-259, 'IR', 261-268;277-283, 'G', 285-
 R/Krusius, T.; Gehlsen, K.R.; Ruoslahti, E.
 J. Biol. Chem. 262, 13120-13125, 1987

A/Title: A fibroblast chondroitin sulfate proteoglycan core protein contains lectin-like
 A/Reference number: A29348; MUID:88007514; PMID:2820964
 A/Accession: A29348
 A/Molecule type: mRNA
 A/Residues: 1725, 'V', 1727-2409 <KRU>
 R/Perides, G.; Rahemtulla, F.; Lane, W.S.; Asher, R.A.; Bignami, A.
 J. Biol. Chem. 267, 23883-23887, 1992

A/Title: Isolation of a large aggregating proteoglycan from human brain.
 A/Reference number: A45131; MUID:93054750; PMID:1429726
 A/Contents: brain
 A/Accession: A45131
 A/Molecule type: protein
 A/Residues: 21-22, X', 24-37 <PE2>
 A/Experimental source: brain
 A/Note: sequence extracted from NCBI backbone (NCBI:118884)
 R/Iozzo, R.V.; Naso, M.F.; Cannizzaro, L.A.; Wasmuth, J.J.; McPherson, J.D.
 Genomics 14, 845-851, 1992

A/Title: Mapping of the versican proteoglycan gene (CSPG2) to the long arm of human chro
 A/Reference number: I54179; MUID:93122792; PMID:1478664
 A/Accession: I54179
 A/Status: translated from GB/EMBL/DBJ
 A/Molecule type: DNA
 A/Residues: 251-347 <RES>
 A/Cross-references: GB:S52488; NID:9263313; PIDN:AAB24878.1; PID:G263314
 C/Genetics:
 A/Gene: GDB:CSPG2
 A/Cross-references: GDB:127873; OMIM:118661

A/Map position: 5q12-5q14
 C/Superfamily: versican; C-type lectin homology; complement factor H repeat homology; EGF
 F1-20/Domain: signal sequence #status predicted <SIG>
 F121-2409/Product: proteoglycan 24K core protein #status predicted <MAT>
 F167-244/Domain: link protein repeat homology <LNK1>
 F265-346/Domain: link protein repeat homology <LNK2>
 F259-1654/Domain: chondroitin sulfate attachment #status predicted <GAG>
 F2106-2137/Domain: EGF homology <EG1>
 F2144-2175/Domain: EGF homology <EG2>
 F2182-2302/Domain: C-type lectin homology <LCH>
 F2309-2365/Domain: complement factor H repeat homology <FHD>

Query Match 15.6%; Score 174; DB 1; Length 2409;
 Best Local Similarity 28.5%; Pred. No. 8.4e-07;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 75
 Db 2190 QGCYK--YF---AHRRTWDAEERCLQGAHLTSLSHEEQMFVNRV-----GHDYQ 2237

QY 76 WIGLRREEKQSNSTACQDLYANTDGSISQFRNYYDEP-----SCGSEVCVVMYHOPSAP 131
 Db 2238 WIGL-----NDKMFEDFRWTDGTLQYENWRPNQDPSFSSAGEDCVIIWHENG-- 2287

QY 132 AGIGGPFYFQWDRDRCNMKNFICKYS-----DEKPAVPSREAEGE 172
 Db 2288 -----QWNVDPVPCNYHLTYTCKGTVACGGPPVVENAKTFGK 2323

RESULT 9
 A47171
 chondroitin sulfate proteoglycan PG-M core protein - chicken
 C/Species: Gallus gallus (chicken)
 C/Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 21-Jul-2000
 C/Accession: A47171
 R/Shinmura, T.; Nishida, Y.; Ito, K.; Kimata, K.
 J. Biol. Chem. 268, 14461-14469, 1993

A/Title: CDNA cloning of PG-M, a large chondroitin sulfate proteoglycan expressed during
 A/Reference number: A47171; MUID:93300846; PMID:8314802
 A/Accession: A47171
 A/Status: preliminary
 A/Molecule type: nucleic acid
 A/Residues: 1-3562 <SHI>
 A/Cross-references: GB:D13542; NID:G391643; PIDN:BAA02742.1; PID:G391644
 A/Experimental source: stage 22-23 developing limb buds
 A/Note: sequence extracted from NCBI backbone (NCBI:134456, NCBIP:134457)
 C/Superfamily: chicken chondroitin sulfate proteoglycan PG-M core protein; C-type lectin
 F166-243/Domain: link protein repeat homology <LNK1>
 F264-345/Domain: link protein repeat homology <LNK2>
 F3258-3289/Domain: EGF homology <EGF1>
 F3296-3327/Domain: EGF homology <EGF>
 F3334-3454/Domain: C-type lectin homology <LCH>
 F3461-3517/Domain: complement factor H repeat homology <FHD>

Query Match 15.3%; Score 171; DB 2; Length 3562;
 Best Local Similarity 28.5%; Pred. No. 2.4e-06;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 75
 Db 3342 QGCYK--YF---AHRRTWDAEERCLQGAHLTSLSHEEQMFVNRV-----GHDYQ 3389

QY 76 WIGLRREEKQSNSTACQDLYANTDGSISQFRNYYDEP-----SCGSEVCVVMYHOPSAP 131
 Db 3390 WIGL-----NDKMFEDFRWTDGSPLOQYENWRPNQDPSFSSAGEDCVIIWHENG-- 3439

QY 132 AGIGGPFYFQWDRDRCNMKNFICKYS-----DEKPAVPSREAEGE 172
 Db 3440 -----QWNVDPVPCNYHLTYTCKGTVACGGPPVVENAKTFGK 3475

RESULT 10

T42710
mannose receptor, macrophage - mouse
N:Alternate names: lambda lectin; phospholipase A2 receptor
C:Species: Mus musculus (house mouse)
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jun-2000
C:Accession: T42710
R:Wu, K.; Yuan, J.; Lasky, L.A.
J. Biol. Chem. 271, 21323-21330, 1996
A:Title: Characterization of a novel member of the macrophage mannose receptor type C le
A:Reference number: Z22235; MUID:96355501; PMID:8702911
A:Accession: T42710
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1479 <WUK>
A:Cross-references: EMBL:U56734; NID:Q1336073; PID:Q1336074; PIDN:AAC52729.1
A:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C:Keywords: membrane protein; receptor
F:186-227/Domain: fibronectin type II repeat homology <2FR>
Query Match 15.3%; Score 170.5; DB 2; Length 1479;
Best Local Similarity 31.4%; Pred. No. 9.7e-07;
Matches 48; Conservative 22; Mismatches 48; Indels 35; Gaps 7;
QY 7 SQQVCRGGTQPCVKVIYFHDTSRLNPEEAKACRRDGGQLVSISEDEQKLIKPIE 66
DB 384 SQQPP-----QGHCVRL-----QAEKRSWQSKRACLRGGDLSLHSMAELEFITKQIK 433
QY 67 NLLPSDGDFFWGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPS---CGSEVCW 123
DB 434 QEVE---ELWIGL-----NDLKLQNFWSGSLVSFTWHPFFENFRDLSLEDCVT 482
QY 124 MYHQPSPAGIGGPGYMFQWDDRCNMKNFNICK 156
DB 483 IW-----GPEG-----RWNDSPCNQSLPSICK 504
RESULT 11
A39808
proteoglycan core protein, cartilage - bovine (fragments)
N:Alternate names: aggrecan; aggregating cartilage proteoglycan
C:Species: Bos primigenius taurus (cattle)
C:Date: 20-Mar-1992 #sequence_revision 23-Mar-1995 #text_change 13-Aug-1999
C:Accession: A34234; A27752; A39808; A27751; C27751; D27751; E27751; F27
R:Antonsson, P.; Heinigard, D.; Oldberg, A.
J. Biol. Chem. 264, 16170-16173, 1989
A:Title: The keratan sulfate-enriched region of bovine cartilage proteoglycan consists o
A:Reference number: A34234; MUID:89380219; PMID:2528543
A:Accession: A34234
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 128-621 <ANT>
A:Cross-references: GB:J05028
R:Oldberg, A.; Antonsson, P.; Heinigard, D.
Biochem. J. 243, 285-289, 1987
A:Title: The partial amino acid sequence of bovine cartilage proteoglycan, deduced from a
A:Reference number: A27752; MUID:87270630; PMID:3111460
A:Accession: A27752
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 622-1340 <OLD>
R:Sandy, J.D.; Boynton, R.E.; Flannery, C.R.
J. Biol. Chem. 266, 8198-8205, 1991
A:Title: Analysis of the catabolism of aggrecan in cartilage explants by quantitation of
A:Reference number: A39808; MUID:91217051; PMID:2022637
A:Accession: A39808
A:Status: preliminary
A:Molecule type: protein
A:Residues: 1-28; 59-82; 131-137; 'OSET', 142-149; 196-207; 226-249; 1137-1143; 1252-1267; 1274-1
R:Perin, J.P.; Bonnet, F.; Jolles, P.
FEBS Lett. 206, 73-77, 1986
A:Title: Structural relationship between link proteins and proteoglycan monomers.
A:Reference number: A27751; MUID:87005253; PMID:3530809
A:Accession: A27751

A:Molecule type: protein
A:Residues: 29-58; 74-130; 174-175; 'A', 177-204; 208-225 <PER>
R:Perin, J.P.; Bonnet, F.; Jolles, P.
FEBS Lett. 176, 37-42, 1984
A:Title: Sequence data concerning the protein core of the cartilage proteoglycan monomer
A:Reference number: A91327; MUID:85027710; PMID:6489519
A:Accession: E29164
A:Molecule type: protein
A:Residues: 1230-1249 <PE2>
A:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C:Keywords: glycoprotein
F:8-28/Domain: link protein repeat homology (fragment) <LNK1>
F:29-58/Domain: link protein repeat homology (fragment) <LNK2>
F:80-146/Domain: link protein repeat homology (fragments) <LNK3>
F:167-248/Domain: link protein repeat homology <LNK4>
F:1130-1250/Domain: C-type lectin homology <LCH>
F:1257-1313/Domain: complement factor H repeat homology <FHD>
Query Match 14.2%; Score 158.5; DB 2; Length 1340;
Best Local Similarity 26.8%; Pred. No. 1e-05;
Matches 48; Conservative 29; Mismatches 59; Indels 43; Gaps 10;
QY 9 QPVCRRGG---TORPCYKVIYFHDTSRLNPEEAKACRRDGGQLVSISEDEQKLIKFI 65
DB 1127 QKLCBEGWTFQGHCVR--HFPD---RATWDAESQCRKQSHLSIVTPEEQ----EFV 1177
QY 66 ENLLPSDGDFFWGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP---SCGSEV 120
DB 1178 NN---NAQDYQWIGL-----NDKTIEGDFWSDGHSLSQFENWRPNQDNFFATGDC 1226
QY 121 CVVMYHQPSPAGIGGPGYMFQWDDRCNMKNFNICKYS---DEKPAVPSREAEGETE 175
DB 1227 VVMIIWHEKG-----EWNDVPCNYQLPFTCKKGTACGPPVVEHARIFGQKKD 1274
RESULT 12
T42630
aggrecan - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 04-Mar-2000
C:Accession: T42630
R:Hering, T.M.; Kollar, J.; Huynh, T.D.
submitted to the EMBL Data Library, September 1996
A:Description: Complete coding sequence of bovine aggrecan: comparative structural analy
A:Reference number: Z22182
A:Accession: T42630
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-2327 <HER>
A:Cross-references: EMBL:U76615; NID:G1730259; PID:G1730260; PIDN:AAB38524.1
A:Experimental source: articular chondrocytes
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C:Keywords: cartilage; chondroitin sulfate proteoglycan; extracellular matrix; glycoprot

Query Match 14.2%; Score 158.5; DB 2; Length 2327;
Best Local Similarity 26.8%; Pred. No. 1.9e-05;
Matches 48; Conservative 29; Mismatches 59; Indels 43; Gaps 10;
QY 9 QPVCRRGG---TORPCYKVIYFHDTSRLNPEEAKACRRDGGQLVSISEDEQKLIKFI 65
DB 2114 QKLCBEGWTFQGHCVR--HFPD---RATWDAESQCRKQSHLSIVTPEEQ----EFV 2164
QY 66 ENLLPSDGDFFWGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP---SCGSEV 120
DB 2165 NN---NAQDYQWIGL-----NDKTIEGDFWSDGHSLSQFENWRPNQDNFFATGDC 2213
QY 121 CVVMYHQPSPAGIGGPGYMFQWDDRCNMKNFNICKYS---DEKPAVPSREAEGETE 175
DB 2214 VVMIIWHEKG-----EWNDVPCNYQLPFTCKKGTACGPPVVEHARIFGQKKD 2261

RESULT 13
A39086

A:Title: A new epidermal growth factor-like domain in the human core protein for the lar
A:Reference number: A34226; MUID:89380154; PMID:2789216
A:Accession: A34226
A:Molecule type: mRNA
A:Residues: 1936-1963, 'V', 1965-2069, 'A', 2071-2415 <BAL>
A:Cross-references: GB:J05062; NID:g181167; PIDN:AAA35726.1; PID:g181168
C:Genetics:
A:Gene: GDB:AGC1; CSPG1; CSPGCP; MSK16
A:Cross-references: GDB:127479; OMIM:155760
A:Map position: 15q26-15q26
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF;
C:Keywords: alternative splicing; cartilage; chondroitin sulfate proteoglycan; extracell
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-2415/Product: aggrecan cartilage long splice form #status predicted <MAT>
F:20-2162,2201-2415/Product: aggrecan cartilage short splice form #status predicted <MAT>
F:20-2162,2201-2329, 'A', 2392-2415/Product: aggrecan short splice form #status predicted <MAT>
F:44-135/Domain: immunoglobulin homology <IM>
F:170-247/Domain: link protein repeat homology <LNK1>
F:268-349/Domain: link protein repeat homology <LNK2>
F:495-572/Domain: link protein repeat homology <LNK3>
F:593-673/Domain: link protein repeat homology <LNK4>
F:677-861/Domain: keratan sulfate attachment #status predicted <KSA>
F:864-1510/Domain: chondroitin sulfate attachment #status predicted <CS1>
F:1511-2162/Domain: chondroitin sulfate attachment #status predicted <CS2>
F:2168-2198/Domain: EGF homology <EGF>
F:2205-2325/Domain: C-type lectin homology <LCH>
F:2332-2398/Domain: complement factor H repeat homology <FHD>
F:262,239,333,387,434,602,657,737,1898/Binding site: carbohydrate (Asn) (covalent) #statu
F:371,376/Binding site: Keratan sulfate (Thr) (covalent) #status predicted

Query Match 14.2%; Score 158.5; DB 1; Length 2415;
Best Local Similarity 29.1%; Pred. No. 2e+05;
Matches 52; Conservative 22; Mismatches 62; Indels 43; Gaps 11;

QY 9 QVCRGG---TORPCYKVIYHDTSRRLNLFBEAKACRRDGGQLVSTSEDEQKLSKFI 65
DB 2202 QVCEEGWKNYQGHGCHYR--HFPD---RETWVDARRCREQQSHLSIVTPSEQ---EFV 2252
QY 66 ENLLPSDGF-WIGLRREREKQSNSTACQDLYAWDTGSIQFRNRYWDEPS---CGSEVC 121
DB 2253 NN---NAQDYQWIGL-----NDRTIEGFRSDGHPMQFENWRPNQDNFAAGEDC 2301
QY 122 VYW-YHQSAPAGIGPYFYFQWDDRCNKNKNFICKYS-----DEKPAVPSREAGEETE 175
DB 2302 VYMIWHEKG-----EWNQVPCNYHLPTCKGTACGEPVPVVEHARTFGQK 2349

RESULT 14
E-selectin precursor - mouse
N/Alternate names: endothelial leukocyte adhesion molecule 1 (ELAM-1)
C/Species: Mus musculus (house mouse)
C/Date: 04-Mar-1993 #sequence_revision 31-Dec-2000 #text_change 02-Aug-2002
C/Accession: S23174; B42755
R/Becker-Andre, M.; van Huijsduijnen, R.H.; Losberger, C.; Whelan, J.; Delamarier, J.F.
Eur. J. Biochem. 206, 401-411, 1992
A:Title: Murine endothelial leukocyte-adhesion molecule 1 is a close structural and funct
A:Reference number: S23174; MUID:92283265; PMID:1375914
A:Accession: S23174
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-612 <BC>
A:Cross-references: GB:M0778; NID:g193014; PIDN:AAA37547.1; PID:g193015
R/Weller, A.; Isenmann, S.; Vestweber, D.
J. Biol. Chem. 267, 15176-15183, 1992
A:Title: Cloning of the mouse endothelial selectins. Expression of both E- and P-selectin
A:Reference number: A42755; MUID:92340571; PMID:1378846
A:Accession: B42755
A:Status: nucleic acid sequence not shown
A:Molecule type: mRNA
A:Residues: 'MKATAGV', 1-389,391-612 <WEL>
A:Cross-references: GB:M87862; NID:G193107
A:Experimental source: endothelial cells

A>Note: sequence extracted from NCBI backbone (NCBIP:109470)
A>Note: the sequence in GenBank entry MUSESELEC, release 117.0, (PIDN:AAA37577.1; PID:914
A>Note: it is uncertain whether the initiator is Met-1 or the AUG codon preceding that
C:Superfamily: P-selectin; C-type lectin homology; complement factor H repeat homology;
C:Keywords: glycoprotein; transmembrane protein
F:1-21/Domain: signal sequence #status predicted <SIG>
F:12-138/Domain: C-type lectin homology <LCH>
F:22-612/Product: P-selectin #status predicted <MAT>
F:143-174/Domain: EGF homology <EGF>
F:180-238/Domain: complement factor H repeat homology <PH1>
F:243-300/Domain: complement factor H repeat homology <PH2>
F:308-363/Domain: complement factor H repeat homology <PH3>
F:368-426/Domain: complement factor H repeat homology <PH4>
F:431-489/Domain: complement factor H repeat homology <PH5>
F:494-548/Domain: complement factor H repeat homology <PH6>
F:25,391,528/Binding site: carbohydrate (Asn) #status predicted
Query Match 13.9%; Score 154.5; DB 2; Length 612;
Best Local Similarity 27.9%; Pred. No. 3e-06; Mismatches 45; Indels 25; Gaps 5;
Matches 38; Conservative 28; Mismatches 45; Indels 25; Gaps 5;
QY 25 YFHTSRLNFEAKACRRDGGQLVSTESDEQKLEKFIENLLPSDGFWIGLRREE 84
DB 23 YNNASSELMTYDEASAYCQDYTHLVAIQNKEE---INYLNSNLKHSPPSYWIGIRK--- 76
QY 85 KQSNSTACQDLYAWTDGS---ISQPRNYYVDEPS---CGSEVGVVYHQPSPAPAGIGGPPYM 139
DB 77 -----YNNYWIWVGTKPLTEEAQNWAPGEPNNKQNECDVEIYIQRTKDSGM----- 124
QY 140 FQWDDRCNMKNFTC 155
DB 125 ---WDERNCNKKLALC 138
RESULT 15
A28452
proteoglycan core protein precursor, cartilage - rat
N:Alternate names: aggrecan
C:Species: Rattus norvegicus (Norway rat)
C>Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 21-Jan-2000
C:Accession: A92623; A28835; A28453; A28095; A28452
R:Doerge, K.; Sasaki, M.; Horigan, E.; Hassell, J.R.; Yamada, Y.
J. Biol. Chem. 262, 17757-17767, 1987
A:Title: Complete primary structure of the rat cartilage proteoglycan core protein deduced from complementary DNA sequence
A:Reference number: A92623; MUID:88087070; PMID:3693370
A:Accession: A92623
A:Molecule type: mRNA
A:Residues: 1-2124 <DOS>
R:Doerge, K.; Sasaki, M.; Horigan, E.; Hassell, J.R.; Yamada, Y.
J. Biol. Chem. 263, 10040a, 1988
A:Reference number: A30069
A:Content: annotation; revision to residue 698
R:Doerge, K.; Fernandez, P.; Hassell, J.R.; Sasaki, M.; Yamada, Y.
J. Biol. Chem. 261, 8108-8111, 1986
A:Title: Partial cDNA sequence encoding a globular domain at the C terminus of the rat cartilage proteoglycan core protein
A:Reference number: A28835; MUID:86250698; PMID:2424893
A:Accession: A23835
A:Molecule type: mRNA
A:Residues: 1856-2124 <DOS>
A:Cross-references: GB:M13518; NID:9206104; PIDN:AAA41836.1; PID:9206105
R:Neame, P.J.; Christner, J.E.; Baker, J.R.
J. Biol. Chem. 262, 17768-17778, 1987
A:Title: Cartilage proteoglycan aggregates. The link protein and proteoglycan amino-terminal domain
A:Reference number: A28453; MUID:88087071; PMID:3693371
A:Accession: A28453
A:Molecule type: protein
A:Residues: 20-37, 'W', 39-60, 'E', 62-64, 'X', 66-69, 70-83, 84, 89-148, 'L', 150-238, 'S', 240, 'A',
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF homology
C:Keywords: glycoprotein
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-2124/Product: proteoglycan core protein #status predicted <MAT>
F:44-135/Domain: immunoglobulin homology <IMW>
F:170-247/Domain: link protein repeat homology <LNK1>

F:268-349/Domain: link protein repeat homology <LNK2>
F:504-581/Domain: link protein repeat homology <LNK3>
F:602-683/Domain: link protein repeat homology <LNK4>
F:1914-2034/Domain: C-type lectin homology <LCH>
F:2041-2097/Domain: complement factor H repeat homology <PHD>
F:126,239,333,387,611,667,1842/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 13.8%; Score 153.5; DB 2; Length 2124;
Best Local Similarity 26.3%; Pred. No. 4.7e-05; Mismatches 62; Indels 43; Gaps 9;
Matches 47; Conservative 27; Mismatches 62; Indels 43; Gaps 9;
QY 9 QPVCRCGG---TORPCYKVIYFHTSRLNFEAKACRRDGGQLVSTESDEQKLEKFIENLLPSDGF 65
DB 1911 QEOCEGWTKEFGHCYR---HFPD---RETWDAERRCRQGHLSISIVTPEEQEFYNKVA 1965
QY 66 ENLLPSDGF-NIGLRREEKQSNSTACQDLYAWTDGSISQPRNYYVDEP---SCGSV 120
DB 1966 Q-----DYQWIGL-----NDRTEGDFLWSDGHSLOFEKWRPNQDNFFATGEBC 2010
QY 121 CVVYHQPSPAPAGIGGPPYMFWQNDRCNMKNFIKYS---DEKPAVPSREAEGETE 175
DB 2011 VVMWHERG-----ENWDFVCNQLPTCKKGTACGEPFAVEHARTLGKKD 2058
RESULT 16
A54423
brevican precursor - bovine
C:Species: Bos primigenius taurus (cattle)
C>Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 21-Jan-2000
C:Accession: A54423; S41914
R:Yamada, H.; Watanabe, K.; Shimonaka, M.; Yamaguchi, Y.
J. Biol. Chem. 269, 10119-10126, 1994
A:Title: Molecular cloning of brevican, a novel brain proteoglycan of the aggrecan/versican family
A:Reference number: A54423; MUID:94193597; PMID:8144512
A:Accession: A54423
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-912 <YAM>
A:Cross-references: GB:X75887; NID:9452820; PIDN:CAA53481.1; PID:9452821
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF homology
F:50-139/Domain: immunoglobulin homology <IMW>
F:174-251/Domain: link protein repeat homology <LNK1>
F:272-353/Domain: link protein repeat homology <LNK2>
F:651-682/Domain: EGF homology <EGF>
F:689-809/Domain: C-type lectin homology <LCH>
F:816-872/Domain: complement factor H repeat homology <PHD>
Query Match 13.6%; Score 152; DB 2; Length 912;
Best Local Similarity 28.8%; Pred. No. 2.4e-05; Mismatches 61; Indels 38; Gaps 8;
Matches 47; Conservative 17; Mismatches 61; Indels 38; Gaps 8;
QY 17 QRPCYKVIYFHTSRLNFEAKACRRDGGQLVSTESDEQKLEKFIENLLPSDGF 76
DB 697 QGACYK---HFSARR-SWEEAENKCRMYGAHLASISTPEEQDFINNRVREYQ-----W 745
QY 77 IGLRREEKQSNSTACQDLYAWTDGSISQPRNYYVDEPS---CGSEVGVVW-VHPSAPA 132
DB 746 IGL-----NDRTEGDFLWSDGVPLLYENWNPQGDSYFLSGENCVMVWHDQG--- 794
QY 133 GIGGPPYMFQWDDRCNMKNFIKYS---DEKPAVPSREAE 171
DB 795 -----QMSDFVCNHLSTCTKMGVSCGPPPELPLAEVFG 829
RESULT 17
T24425
hypothetical protein T04A8.3 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C:Accession: T24425
R:Palmer, S.
submitted to the EMBL Data Library, August 1994
A:Reference number: Z19889

F:163-282/Domain: C-type lectin homology <LCH>
F:63/Binding site: carbohydrate (Asn) (covalent) #status predicted
F:147-148/Cleavage site: Lys-Leu (unidentified proteinase) #status experimental
F:149-150/Cleavage site: Arg-Met (unidentified proteinase) #status experimental
F:191-282,259-273/Disulfide bonds: #status experimental

Query Match 13.4%; Score 149; DB 1; Length 321;
Best Local Similarity 30.2%; Pred. No. 1.3e-05;
Matches 55; Conservative 20; Mismatches 57; Indels 50; Gaps 11;

QY 17 QRPCKVLYFHDTSRRLLNFEEAKEACRRDGGQLVSISEDEQKLIETPIENLLPSDGDGF 76
DB 171 QKCY--YFGKGIKQ--WVHARYACDMEQQLVSIHSPEDQLTKH-----ASHTGSW 220

QY 77 IGLRRREKQNSNTACQDLYAWTDGSIQFRNYYVDEPSCGS--BVCVMYHQPASAGI 134
DB 221 IGLRLDLKGE-----FIWVDGSHVDYNSWAFGEPTSRSGEDCVMM-----RGS 265

QY 135 GGPYMFQNDRCNNK-NFFICKYSDEKPAV---PSREAEGE-----ETELTPV 180
DB 266 G-----RWDAFCDRKLGAWVC---DRLAICTPPASGSAESMGPSRPPDGLRTPS 316

QY 181 LP 182
DB 317 AP 318

RESULT 19
T46256
brevican - human (fragment)
N:Alternate names: protein DKF2p761L191.1
C:Species: Homo sapiens (man)
C>Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 02-Sep-2000
C:Accession: T46256
R:Ottewälder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, January 2000
A:Reference number: Z23031
A:Accession: T46256
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-330 <AAA>
A:Cross-references: EMBL:AL137504
A:Experimental source: adult amygdala; clone DKF2p761L191
C:Genetics:
A:Note: DKF2p761L191.1
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG

Query Match 13.3%; Score 148.5; DB 2; Length 330;
Best Local Similarity 29.5%; Pred. No. 1.5e-05;
Matches 46; Conservative 16; Mismatches 57; Indels 37; Gaps 8;

QY 8 GOPVCRGG--TORPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSISEDEQKLIKF 64
DB 103 GLRFCNPGWDATQGCYK-----HFSTER-SWEAETQCHMYGAHLASISTPEEQDFINR 157

QY 65 IENLLPSDGFHWIGLRREKQNSNTACQDLYAWTDGSIQFRNYYVDEPS---CGSEVC 121
DB 158 YREYQ-----WIGL-----NDRITIEGDLWSDGVPLLYENWNPQGPDSYFLSGENC 203

QY 122 VVM-YHQPASAGIGPYPMFQNDRCNNKNFICK 156
DB 204 VVMVHDDG-----QMSDVPNCYHLSITCK 228

RESULT 20
A55182
aggrecan precursor - mouse
C:Species: Mus musculus (house mouse)
C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jan-2000
C:Accession: A55182; S55329; S50207; S51355; 178532; 158123
R:Walcz, E.; Deak, F.; Erhardt, P.; Coulter, S.N.; Fuellep, C.; Horvath, P.; Doege, K.J.
Genomics 22, 364-371, 1994
A:title: Complete coding sequence, deduced primary structure, chromosomal localization,

A:Reference number: A55182; MUID:95104847; PMID:7806222
A:Accession: A55182
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: mRNA
A:Residues: 1-2132 <WAL>
A:Cross-references: GB:I07049; NID:9678541; PIDN:AAC37670.1; PID:gl91772
R:Watanabe, H.; Gao, L.; Sugiyama, S.; Doege, K.; Kimata, K.; Yamada, Y.
Biochem. J. 308, 433-440, 1995
A:title: Mouse aggrecan, a large cartilage proteoglycan: protein sequence, gene structure
A:Reference number: S55329; MUID:95289972; PMID:7772024
A:Accession: S55329
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-567, 'G', 569-1728, 'I', 1730-2132 <WAT1>
A:Cross-references: GB:IU22301; NID:G886014
R:Glumoff, V.; Savontaus, M.; Vehanen, J.; Vuorio, E.
Biochim. Biophys. Acta 1219, 613-622, 1994
A:title: Analysis of aggrecan and tenascin gene expression in mouse skeletal tissues by
A:Reference number: S50206; MUID:95035091; PMID:7524581
A:Accession: S50207
A:Molecule type: mRNA
A:Residues: 350-481, 'R', 483-506 <GLU1>
A:Cross-references: EMBL:X80279; NID:G673432
R:Glumoff, V.
submitted to the EMBL Data Library, July 1994
A:Reference number: S51355
A:Accession: S51355
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 350-383, 'CPVMSQRESPWAA' <GLU2>
A:Cross-references: EMBL:X80279
R:Watanabe, H.; Kimata, K.; Line, S.; Strong, D.; Gao, L.Y.; Korak, C.A.; Yamada, Y.
Nature Genet. 7, 154-157, 1994
A:title: Mouse cartilage matrix deficiency (cmd) caused by a 7 bp deletion in the aggrec
A:Reference number: I58123; MUID:95004579; PMID:7920633
A:Accession: I78532
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 211-326 <WAT2>
A:Cross-references: GB:S73722; NID:G765215; PIDN:AAB32160.1; PID:G765216
A:Accession: I58123
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 211-240, 'MCTASLRWRVRSFMHPQNSRSRQPTS', 'AGGWHAWPPQASSTWPGRAVWTCALAGW', 'R
A:Cross-references: GB:S73720; NID:G765211; PIDN:AAB32159.1; PID:G765212
C:Genetics:
A:Map position: 7
A:Introns: 253/1
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C:Keywords: cartilage; extracellular matrix
F:1-19/Domain: signal sequence #status predicted <SIG>
F:14-135/Domain: immunoglobulin homology <IMM>
F:170-247/Domain: link protein repeat homology <LNK1>
F:268-349/Domain: link protein repeat homology <LNK2>
F:504-581/Domain: link protein repeat homology <LNK3>
F:602-683/Domain: link protein repeat homology <LNK4>
F:1922-2042/Domain: C-type lectin homology <LCH>
F:2049-2105/Domain: complement factor H repeat homology <FHD>

Query Match 13.3%; Score 148.5; DB 1; Length 2132;
Best Local Similarity 24.7%; Pred. No. 0.00013;
Matches 46; Conservative 30; Mismatches 67; Indels 43; Gaps 9;

QY 2 TGRLLSGQPVCRGG---TORPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSISEDEQ 58
DB 1912 TESTVADQEQCEEGWTKFQGHCYR--HFPD---RETWVDAERRCRREQSHLSSIVTPEEQ 1966

QY 59 KLIKFTENLLPSDGF--WIGLRREKQNSNTACQDLYAWTDGSIQFRNYYVDEP--- 114
DB 1967 EFVNKNAQ-----DYCWIGL-----NDRITIEGDFRWSGDGHSIQFEKWRNPQDNF 2011

QY 115 -SCSEVCVMYHQPASAGIGPYPMFQNDRCNNKNFICKYS----DKPAVPSREA 169
A:title: Complete coding sequence, deduced primary structure, chromosomal localization,

Db 2012 FATGEDCVNWIHERG-----EWNVPNCYQLPFTCKKGTACGDPFVVEHART 2060
QY 170 EGEETE 175
Db 2061 LGQKDD 2066

RESULT 21
E89130
protein F52E1.2 [imported] - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
C:Accession: E89130
R:anonymous, The C. elegans Sequencing Consortium.
Science 282, 2012-2018, 1998
A:Title: Genome sequence of the nematode C. elegans: a platform for investigating biology
A:Reference number: A75000; PMID:99069613; PMID:9851916
A:Note: see websites genome.wustl.edu/gsc/C.elegans/ and www.sanger.ac.uk/Projects/C.ele
A:Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and
A:Accession: E89130
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-253 <STO>
A:Cross-references: GB:chr_V; PIDN:AAB37037.1; PID:G1086809; GSPDB:GN00023; CESP:F52E1.2
C:Genetics:
A:Gene: F52E1.2
A:Map position: 5

Query Match 13.3%; Score 148; DB 2; Length 253;
Best Local Similarity 29.2%; Pred. No. 1.2e-05;
Matches 49; Conservative 24; Mismatches 57; Indels 38; Gaps 10;

QY 12 CRGG-----TQPCYKV-IYFHDTSRLNFE-----AKEACRRGGQLVSTES 54
Db 96 CPGCGPTGQYVNSKCYKVLHPLCLSLVKQLQKFDAAVYAGATSCAAQAEVLITDS 155
QY 55 EDEQKLIEXFIEN--LLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWTYVD 112
Db 156 FDENDALRKAFTNALVDKETWGLK-----SLSGAQW-----WADGSSATYTNWAPS 205
QY 113 EPSCGSEVCVVMYHQPAPAGTGGYMFQ--WNDRCNKKY-NFICK 156
Db 206 QPS-SNGLCVQMTDLSNA-----TYKQRGWKTYGCKTASAYICE 248

RESULT 22
S57653
brevican precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 19-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 13-Aug-1999
C:Accession: S57653
R:Rauch, U.; Forsberg, N.; Kulbe, G.; Arnold-Ammer, I.; Faessler, R.
submitted to the EMBL Data Library, May 1995
A:Description: Cloning and sequence of mouse neurocan and brevican and their different e
A:Reference number: S57653
A:Accession: S57653
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-883 <RAU>
A:Cross-references: EMBL:X87096; PIDN:CAA60575.1; PID:Q886890
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
F:49-138/Domain: immunoglobulin homology <IMM>
F:173-250/Domain: link protein repeat homology <LNKI>
F:271-352/Domain: link protein repeat homology <LNKI>
F:626-657/Domain: EGF homology <EGF>
F:664-784/Domain: C-type lectin homology <LCH>
F:791-847/Domain: complement factor H repeat homology <FHD>

Query Match 13.2%; Score 147; DB 2; Length 883;
Best Local Similarity 29.7%; Pred. No. 6.4e-05;
Matches 43; Conservative 21; Mismatches 45; Indels 36; Gaps 8;

QY 17 QRPCYKVIYFHDTSRLNFEAKEACRRDGGQLVSISEDEQKLI-EKFTEIILPSDGF 75

Db 672 QGACYK---HFSTR-SWEAEASQCTALGAHLTISICTPEEQDFVNDRYEQ----- 719
QY 76 WIGLRRREKQSNSTACQDLYAWTDGSIQFRNWTYDEPS---CGSEVCVVM-YHQPAP 131
Db 720 WIGL-----NDRTIEGDFLWSDGAPLLYENWNPQDPSYFLSGENCVMVWHQDG-- 769
QY 132 AGIGGPFYFQWNDRCNMKNFICK 156
Db 770 -----QWSDVPCNYHLSTCK 785

RESULT 23
LNRC1
lectin BRA3-1 precursor - barnacle (Megabalanus rosa)
C:Species: Megabalanus rosa
C:Date: 24-Feb-1994 #sequence_revision 09-Sep-1994 #text_change 16-Jul-1999
C:Accession: JCI1503; A26094
R:Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T.
Gene 128, 251-255, 1993
A:Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and
A:Reference number: JCI1503; PMID:93292994; PMID:8514190
A:Accession: JCI1503
A:Molecule type: DNA; mRNA
A:Residues: 1-162 <TAK>
A:Cross-references: DDBJ:D13299
R:Muramoto, K.; Kamiya, H.
Biochim. Biophys. Acta 874, 285-295, 1986
A:Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.
A:Reference number: A26094
A:Accession: A26094
A:Molecule type: protein
A:Residues: 25-145, K', 147-162 <MUR>
A:Note: 146-Arg was also found
C:Comment: This galactose-binding lectin is isolated from the coelomic fluid.
C:Comment: This protein plays important roles in defense mechanisms and in development ar
C:Comment: The molecule is a tetramer of identical chains.
C:Genetics:
A:Introns: 22/1; 47/2; 86/3
A:Superfamily: tetranectin; C-type lectin homology
C:Keywords: hemolymph; homotetramer; lectin
F:1-24/Domain: signal sequence #status predicted <SIG>
F:25-162/Product: lectin BRA3-1 #status experimental <MAT>
F:26-150/Domain: C-type lectin homology <LCH>
F:26-39, 56-150, 125-142/Disulfide bonds: #status experimental
F:157/Disulfide bonds: interchain (to 160) #status experimental
F:160/Disulfide bonds: interchain (to 157) #status experimental

Query Match 13.1%; Score 146.5; DB 1; Length 162;
Best Local Similarity 25.0%; Pred. No. 9.8e-06;
Matches 40; Conservative 26; Mismatches 59; Indels 35; Gaps 6;

QY 5 LLSGQPCVCGGTQPCYKVIYFHDTSRLNFEAKEACR--RDGGQLVSISEDEQKLI 62
Db 19 ITTGECTCPGNLDWQSDYDGHCTWASQYQVRWDAQACQTVHPGAYLATIQSLENAFIS 78
QY 63 KFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWTYDEPS-----C 116
Db 79 ETYSN-----NRLWIGL-----NDIDLEGHYVWSNGEATDFTWSSNNNNWENQDC 125
QY 117 GSEVCVVMYHQPAPAGTGGYMFQWNDRCNMKNFICK 156
Db 126 G-----VNYDTVTG-----QWDDDDCNKNRFLCK 151

RESULT 24
I50421
aggrecan precursor - chicken
N:Alternate names: cartilage chondroitin sulfate proteoglycan core protein
C:Species: Gallus gallus (chicken)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jan-2000
C:Accession: I50421; S27356; S27356; A32002; I50216; A37072; B37072
R:Li, H.; Schwartz, N.B.; Vertel, B.M.

F; 2024-2080/Domain: complement factor H repeat homology <FHD>
 Query Match 13.1%; Score 146; DB 1; Length 2109;
 Best Local Similarity 25.0%; Pred. No. 0.00022;
 Matches 42; Conservative 28; Mismatches 58; Indels 40; Gaps 8;

QY 17 QRPCYVIVFHDTSRLNFEAEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDGF- 75
 DB 1905 QGHCYR--HFEE---RETWMDABSRCHQAHLLSIITPEQEFVNSHAQ-----DYQ 1952
 QY 76 WIGLRREBKQNSTACQDLIYATDGSISQFRWYVDEPS---CGSEVCVMYHQPSAP 131
 DB 1953 WIGLSDR-----AVENDFRWSDGHSLOFENWRNQPNFFAGSDCVVNIWHEQG-- 2002
 QY 132 AGIGGPMFQWDDRCNMKNFICKYS-----DEKPAVPSREAGEETE 175
 DB 2003 -----EMNDVPCNYHLPTFCCKGTACGDPVPVENARTFGRKD 2041

RESULT 25
 JC7595
 scavenger receptor with C-type lectin type I - human
 C/Species: Homo sapiens (man)
 C/Date: 30-Jun-2001 #sequence_revision 30-Jun-2001 #text_change 30-Jun-2001
 C/Accession: JC7595
 R; Nakamura, K.; Funakoshi, H.; Miyamoto, K.; Tokunaga, F.; Nakamura, T.
 Biochem. Biophys. Res. Commun. 280, 1028-1035, 2001
 A; Title: Molecular cloning and functional characterization of a human scavenger
 A; Reference number: JC7595; MUID: 21092718; PMID: 11162630
 A; Contents: Placenta
 A; Accession: JC7595
 A; Molecule type: mRNA
 A; Residues: 1-742 <NAK>
 A; Cross-references: DDBJ: AB038518
 C; Comment: This receptor, a member of the scavenger receptor family, belonging
 important role in host defense. It forms a timer and plays a role in recognizing
 C; Genes: C;
 A; Gene: scl-1
 A; Map position: 18p11.32
 C; Keywords: coiled coil; glycoprotein; transmembrane protein
 F; 1-39/Domain: cytosolic (amino-terminus) #status predicted <CYT>
 F; 16-19/Region: internalization signal YKRF
 F; 40-56/Domain: transmembrane #status predicted <TM>
 F; 57-112/Domain: extracellular #status predicted <EXT>
 F; 113-335/Domain: coiled coil #status predicted <COC>
 F; 369-384/Region: serine/threonine-rich #status predicted
 F; 443-589/Domain: collagen-like #status predicted <COL>
 F; 607-732/Domain: C-type lectin/carbohydrate recognition domain #status predicted

Query Match 13.0%; Score 145.5; DB 2; Length 742;
 Best Local Similarity 28.7%; Pred. No. 7.1e-05;
 Matches 39; Conservative 17; Mismatches 61; Indels 19; Gaps 5;

QY 25 YFHDTSRLNFEAEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDGFWIGLRREE 84
 DB 619 YFYSVEKEI-FEDAKLFCEDKSSHLVFTNTREEQWIKK-----QMVGRSHWIGLTDSE 673
 QY 85 QKSNSTACQDLIYATDGSISQFRWYVDEPSCGSEVCVMYHQPSAPAGIGGPMFQWDD 144
 DB 674 ENE-----WKWLDGTSIDYKNWKAQDPDNWGH-----CHGFEDCA-GLIYAGQND 719

QY 145 DRCKNMKNFICKYSDE 160
 DB 720 FQCEDVNNFICKDRE 735

RESULT 26
 S49126
 brevicain precursor - rat
 N; Alternate names: aggrecan-like protein
 C; Species: Rattus norvegicus (Norway rat)
 C; Date: 01-Feb-1995 #sequence_revision 12-May-1995 #text_change 26-May-2000
 C; Accession: S49126; 155457

85 KQSNSTACQDIYAWTDGS--ISQFRN-WYVDEP-SCGSEYCVVMYHQPSAPAGIGGPYNF 140

Db 324 -----EGTWQVDSPLLPSPKQYNNRGEFNNVGEEDCAEF-----SGNG----- 363

QY 141 QWNDDRCNMKNFKICKYS-----DEK-----PAVPS 166

Db 364 -WNDKCLAKFWICKSASCSDEDEQFLSPAPATFN 400

RESULT 30

JC4329

coagulation factor IX-binding protein A chain - habu

C:Species: Trimeresurus flavoviridis (habu)

C>Date: 06-Dec-1995 #sequence_revision 08-Feb-1996 #text_change 13-Mar-1998

C:Accession: JC4329

R:Atoda, H.; Ishikawa, M.; Yoshihara, E.; Sekiya, F.; Morita, T.

J. Biochem. 118, 965-973, 1995

A:Title: Blood coagulation factor IX-binding protein from the venom of Trimeresurus flavoviridis

A:Reference number: JC4329; MUID: 96318509; PMID: 8749314

A:Accession: JC4329

A:Molecule type: protein

A:Residues: 1-129 <ATO>

C:Comment: This protein binds calcium.

C:Superfamily: tetranectin; C-type lectin homology

C:Keywords: anticoagulant; blood coagulation; calcium binding; venom

F:2-127/Domain: C-type lectin homology <LCH>

F:2-13,30-127,102-119/Disulfide bonds: #status predicted

Query Match 12.9%; Score 143.5; DB 2; Length 129;

Best Local Similarity 25.6%; Pred. No. 1.4e-05;

Matches 42; Conservative 22; Mismatches 47; Indels 31; Gaps 7;

QY 20 CYKVIYTH---DTSRRLNFEAEACRRDGGQGVLSIESDEQKLEKFI-ENLPSDGF 75

Db 13 CYKPKLYKTWDDAERFCTEQAK-----GGHLVSIESAGEADFAQLVTENIQNTKSV 66

QY 76 WIGLR-REERKQNSTACQDLYAWTQGISQFNNWYVDPSGSEVCVVMYHQPSAPAGI 134

Db 67 WIGLRVQGEKQCS-----EWSGSSVSYNWIEAE-----SKTCLGLEKETG----- 110

QY 135 GGPYMFQWDDRCNMKNFKICK 156

Db 111 ----FRXWNVICQCPFFVCE 128

RESULT 31

A32375

L-selectin precursor - mouse

N:Alternate names: lymph node homing receptor MEL-14; lymphocyte surface antigen Ly-22

C:Species: Mus musculus (house mouse)

C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jan-2000

C:Accession: A32375; A35102; A40167; A60906

R:Laak, L.A.; Singer, M.S.; Yednock, T.A.; Dowbenko, D.; Fennie, C.; Rodriguez, H.; Ngu Cell 56, 1045-1055, 1989

A:Title: Cloning of a lymphocyte homing receptor reveals a lectin domain.

A:Reference number: A32375; MUID: 89168433; PMID: 2647302

A:Accession: A32375

A:Molecule type: mRNA

A:Residues: 1-372 <LAS>

A:Cross-references: GB:M25324; NID:G198803; PIDN:AAA39431.1; PID:G198804

R:Siegelman, M.H.; Cheng, I.C.; Weissman, I.L.; Wakeland, E.K.

Cell 61, 611-622, 1990

A:Title: The mouse lymph node homing receptor is identical with the lymphocyte cell surface receptor

A:Reference number: A35102; MUID: 90263086; PMID: 1693096

A:Accession: A35102

A>Status: not compared with conceptual translation

A:Molecule type: mRNA

A:Residues: 1-372 <STE1>

A:Cross-references: GB:M36005; NID:G199735; PIDN:AAA39722.1; PID:G199736; GB:M36058; NID:G199736

R:Siegelman, M.H.; van de Rij, M.; Weissman, I.L.

Science 243, 1165-1172, 1989

A:Title: Mouse lymph node homing receptor cDNA clone encodes a glycoprotein revealing the structure of the mouse lymph node homing receptor

A:Reference number: A40167; MUID: 89162048; PMID: 2646713

A:Accession: A40167

A:Molecule type: mRNA

A:Residues: 1-372 <STE2>

A:Cross-references: GB:X14772; NID:G52942; PIDN:CAA32880.1; PID:G52943

A:Note: part of this sequence, including the amino end of the mature protein, was confirmed by Siegelman, M.; Bond, M.W.; Gallatin, W.M.; St. John, T.; Smith, H.T.; Fried, V.A.; Weiss Science 231, 823-829, 1986

A:Title: Cell surface molecule associated with lymphocyte homing is a ubiquitinated branched oligosaccharide

A:Reference number: A60906; MUID: 86122900; PMID: 3003913

A:Accession: A60906

A:Molecule type: protein

A:Residues: 'X', 40, 'X', 42, 'XXX', 46, 'X', 48, 'XXXXXX', 55-56, 'X', 58, 'XXXXXX', 65, 'V', 67, 'XL', 70

C:Comment: This protein is ubiquitinated.

C:Function:

A:Description: binds with low affinity to oligosaccharides like heparan sulfate and sialylated leukocytes to areas of inflammation, and with CD162 mediates neutrophil-neutrophil interaction

C:Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology

C:Keywords: cell adhesion; duplication; glycoprotein; inflammation; phosphoprotein; surfactant

F:1-38/Domain: signal sequence #status predicted <SIG>

F:29-155/Domain: C-type lectin homology <LCH>

F:329-372/Product: L-selectin #status experimental <MAT>

F:329-372/Domain: extracellular #status predicted <EXT>

F:160-191/Domain: EGF homology <EGF>

F:197-254/Domain: complement factor H repeat homology <PH1>

F:259-316/Domain: complement factor H repeat homology <PH2>

F:332-355/Domain: transmembrane #status predicted <TM>

F:355-372/Domain: intracellular #status predicted <INT>

F:60,104,216,246,278,308,320/Binding site: carbohydrate (Asp) (covalent) #status predicted

F:364/Binding site: phosphate (Ser) (covalent) #status predicted

Query Match 12.9%; Score 143.5; DB 1; Length 372;

Best Local Similarity 26.5%; Pred. No. 4.8e-05;

Matches 41; Conservative 37; Mismatches 50; Indels 27; Gaps 8;

QY 26 PHTSRLNFEAEACRRDGGQGVLSIESDEQKLEKFIENLPS-SDGDFWIGLRRREE 84

Db 41 YHSEKPMWENARKCKQNYTDLVAIQKR-----IE-YLENTLPKSPYYWIGIRK--- 93

QY 85 KQNSTACQDLYAW---TDGSIIS-QFRNYYVDPS--CGSEVCVVMYHQPSAPAGIGPYM 139

Db 94 -----IGKWTWTVGTVNKTLEAEWAGWAGFNNKSKEDCVIYIKERDSG----- 140

QY 140 FQWDDRCNMKNFKICKYDEKPAVPSREAGEET 174

Db 141 -KWDDACHKRAALCYTASCQPGSCNGRGEVET 174

RESULT 32

T26655

hypothetical protein Y38E10A.e - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999

C:Accession: Y26655

R:Wallis, J.

A:Title: Cloning of a lymphocyte homing receptor reveals a lectin domain.

A:Reference number: Z20252

A:Accession: T26655

A>Status: preliminary; translated from GB/EMBL/DDBJ

A:Molecule type: DNA

A:Residues: 1-463 <WIL>

A:Cross-references: EMBL:AL110484; NID:G1542205; PIDN:CA854396.1; CESP:Y38E10A.e

A:Experimental source: clone Y38E10A

C:Genetics:

A:Gene: CESP:Y38E10A.e

A:Introns: 35/2; 107/3; 155/1; 198/1

Query Match 12.9%; Score 143.5; DB 2; Length 463;

Best Local Similarity 23.8%; Pred. No. 6.1e-05;

Matches 45; Conservative 26; Mismatches 73; Indels 45; Gaps 8;

QY 20 CYKVIYFHTSRLNFEAEACRRDGGQGVLSIESDEQKLEKFIENLPSD---GDFW 76

Db 208 CYT---FHTAS--TVTGKQKICEQCGNGLASIHANENRYIMTGGKATKEDLLGGW 262

Db 286 --RSGG-----QWDAFCSYLDWVCE 306

RESULT 36

LNRC3

Lectin BRA3-2 precursor - barnacle (Megabalanus rosa)

C:Species: Megabalanus rosa

C:Date: 31-Dec-1986 #sequence_revision 09-Sep-1994 #text_change 16-Jul-1999

C:Accession: JG1504; A26094

R:Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T.

Gene 128, 251-255, 1993

A:Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and

A:Reference number: JG1503; MUID:93292994; PMID:8514190

A:Accession: JG1504

A:Molecule type: mRNA

A:Residues: 1-162 <TAK>

R:Muramoto, K.; Kamiya, H.

Biochim. Biophys. Acta 874, 285-295, 1986

A:Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.

A:Reference number: A26094

A:Accession: A26094

A:Molecule type: protein

A:Residues: 25-162 <MUR>

A:Note: 146-Arg was also found

C:Comment: This three galactose-binding lectin is isolated from the coelomic fluid.

C:Comment: This protein plays important roles in defense mechanisms and in development a

C:Comment: The molecule is a tetramer of identical chains.

C:Superfamily: tetranectin; C-type lectin homology

C:Keywords: hemolymph; homotetramer; lectin

F:1-24/Domain: signal sequence #status predicted <SIG>

F:25-162/Product: lectin BRA3-2 #status experimental <MAT>

F:26-150/Domain: C-type lectin homology <LCH>

F:26-39, 56-150, 125-142/Disulfide bonds: #status experimental

F:157/Disulfide bonds: interchain (to 160) #status experimental

F:160/Disulfide bonds: interchain (to 157) #status experimental

Query Match 12.6%; Score 140.5; DB 1; Length 162;

Best Local Similarity 24.4%; Pred. No. 3.3e-05;

Matches 39; Conservative 26; Mismatches 60; Indels 35; Gaps 6;

QY 5 LLSGQPVCEGGTQRCYKVIYFHDTSRLNFEAEKACH--RDGQLVSISEDEOKLIE 62

DB 19 ITTAECTCPGNDWQBYDGHGCHWASTYQVRWDQAACQTVHPGAYLATIQSLENATIS 78

QY 63 KFTENLLPSDGFWTGLRRERREKQNSTACQDLYAWTDGSIQFRNYYVDEPS-----C 116

DB 79 ETVSN-----NRLWIGL-----NDIDLEGHYVWSNGEATDFTYWSNNPNWENQDC 125

QY 117 GSEVVCVMVTHQSPAGAGICGPTFWQVNDRCNKNKFNICK 156

DB 126 G-----VYNYDTVTG-----QWDDDDCNKNKNFLCK 151

RESULT 37

S22124

L-selectin precursor - bovine

N:Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)

C:Species: Bos primigenius taurus (cattle)

C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000

C:Accession: S22124; A46531

R:Bosworth, B.T.

EMBL Data Library, October 1991

A:Reference number: S22123

A:Accession: S22124

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-370 <BOS>

A:Cross-references: EMBL:X62892; NID:G515; PIDN:CAA44676.1; PID:G516

R:Walcheck, B.; White, M.; Kurk, S.; Kishimoto, T.K.; Jutila, M.A.

Eur. J. Immunol. 22, 469-476, 1992

A:Title: Characterization of the bovine peripheral lymph node homing receptor: a lectin

A:Reference number: A46531; MUID:92164727; PMID:1371468

A:Accession: A46531

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 39-79 'Q', 81-151 'K' <WAL>

A:Note: sequence inconsistent with the nucleotide translation

A:Note: sequence extracted from NCBI backbone (NCBIN:85686, NCBI:85687)

C:Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology; I

F:29-155/Domain: C-type lectin homology <LCH>

F:160-191/Domain: EGF homology <EGF>

F:157-254/Domain: complement factor H repeat homology <PH1>

F:259-316/Domain: complement factor H repeat homology <PH2>

Query Match 12.6%; Score 140; DB 2; Length 370;

Best Local Similarity 25.3%; Pred. No. 9.7e-05;

Matches 46; Conservative 35; Mismatches 57; Indels 44; Gaps 9;

QY 26 FHDTSRLNFEAEKACHRDGQLVSISEDEOKLIEFTIENLLP--SDGDFWIGLRRRE 84

DB 41 YHYSKRPMPWEKARAFCRENYTDLVAIQNKGE---IE-YLNKTLPSRTYYWIGIRKVE- 95

QY 85 QKSNSTACQDLYAW--TDGSI--QFRNYYVDEPS--CGSEVVCVMVTHQSPAGAGICGPTM 139

DB 96 -----GVMTWVGTVNKSLEAEKXGAGEPNNRKSKEDECVETIYKRNKDSG----- 140

QY 140 FQWDDRCNKNKNFNICKYSDKEPAVPSRAE-----GDETELTTPVLP 182

DB 141 -KWNDAACHRAKAKALCVTASCKPWSGSGHCQCVETVNNYTCNCDLGYGPECFVTCQVP 199

QY 183 EE 184

DB 200 LE 201

RESULT 38

LNHUPS

pulmonary surfactant protein A precursor (genomic clone) - human

N:Alternate names: alveolar proteinosis protein; pulmonary surfactant 32k apoprotein; pu

C:Species: Homo sapiens (man)

C:Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C:Accession: A24622; A43628

R:White, R.T.; Damm, D.; Miller, J.; Spratt, K.; Schilling, J.; Hawgood, S.; Benson, B.;

Nature 317, 361-363, 1985

A:Title: Isolation and characterization of the human pulmonary surfactant apoprotein gen

A:Reference number: A24622; MUID:86014366; PMID:2995821

A:Accession: A24622

A:Molecule type: DNA

A:Residues: 1-248 <WHI>

A:Cross-references: GB:M30838; NID:G190564; PIDN:AAA36510.1; PID:G190565

A:Note: the sequence in GenBank entry HUMPSAP, release 109.0, (FID:G190565) has the cod

A:Note: four nucleotide differences, producing amino acid differences at positions 45, 5

R:Haggsman, H.P.; White, R.T.; Schilling, J.; Lau, K.; Benson, B.J.; Golden, J.; Hawgood

Am. J. Physiol. 257, L421-L429, 1989

A:Title: Studies of the structure of lung surfactant protein SP-A.

A:Reference number: A43628; MUID:90119861; PMID:2610270

A:Accession: A43628

A:Molecule type: protein

A:Residues: 143-150; 220-240; 243-248 <HAA>

C:Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers t

C:Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells. It

pendent on the presence of calcium ions.

C:Genetics:

A:Gene: GDB:SFTPA1; SFTPI; SP-A; SP-AL

A:Cross-references: GDB:119593; OMIM:178630

A:Map position: 10q22-10q23

A:Introns: 58/1; 98/1; 124/1

C:Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: alveolar proteinosis; calcium; gaseous exchange; glycoprotein; hydroxylysine

F:1-20/Domain: signal sequence #status predicted <SIG>

F:21-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F:28-100/Domain: collagenous #status predicted <COL>

F:127-246/Domain: C-type lectin homology <LCH>

F:26/Disulfide bonds: interchain #status experimental

F:30,33,36,42,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status predict

DB 91 IGLRVQGVKQCNS-----EWSDGSSVSYSNENW:EAE---SKTCLGJKEKTD----- 133

QY 136 GPFYFQWNDDRCNMKNFNICK 156
: : : : :
DB 134 ---FRKWNIYCQQNPVCE 151
: : : : :

RESULT 43

JC4031
tetranectin precursor - mouse
C:Species: Mus musculus (house mouse)
C>Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 20-Aug-1999
C:Accession: JC4031
R:Sorensen, C.B.; Berglund, L.; Petersen, T.E.
Gene 152, 243-245, 1995
A:Title: Cloning of a cDNA encoding murine tetranectin.
A:Reference number: JC4031; MUID:95137396; PMID:7835708
A:Accession: JC4031
A:Molecule type: mRNA
A:Residues: 1-202 <SOR>
A:Cross-references: EMBL:X79199; NID:G671561; PID:CAA55791.1; PID:G671562
A:Comment: This protein binds plasminogen, and may play a role in invasive cancer.
C:Superfamily: tetranectin; C-type lectin homology
F;1-202/Domain: signal_sequence #status predicted <SIG>
F;22-202/Product: tetranectin #status predicted <MAT>
F;71-197/Domain: C-type lectin homology <LCH>

Query Match 12.4%; Score 138.5; DB 2; Length 202;
Best Local Similarity 26.3%; Pred. No. 6.5e-05;
Matches 41; Conservative 30; Mismatches 56; Indels 29; Gaps 7;

QY 9 QPVCRGTORCPVKVIYFDHTSRRLNFBEAKEACRRDGGQLVISEDQKLIKFIENL 68
| | | | : : : : | | | | : : : : | | | | : : : :
DB 68 QTCLXGTGNLKLLAF--TOPKTFHEASEDCISQGGLTGTPQSELENAUFEYARHS 124
| | | | : : : : | | | | : : : : | | | | : : : :
QY 69 LPSDGFDFWIGLRREERKQNSTACDLAYMTD--GSISQPRNWVD---BPSCG-SEVCV 122
: : : : | | : : : : --NDMAEG--AWDMTGGLLAYKNWETEITTPDGGKAENC- 173
DB 125 VGNDANIWLGL----- 173

QY 123 VMYHQPAPAGIOPGYFMQWNNDRCNMKNFNICKY 158
| | | | : : : : | | | | : : : : | | | | : : : :
DB 174 -----AALSGAANGKWFDKRCRDLPYICQFA 200
| | | | : : : : | | | | : : : : | | | | : : : :

RESULT 44

T29200
hypothetical protein T03F1.10 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C:Accession: T29200
R:Dü, Z.; Le, T.T.
submitted to the EMBL Data Library, February 1997
A:Description: The sequence of C. elegans cosmid T03F1.
A:Reference number: Z20586
A:Accession: T29200
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-280 <DUZ>
A:Cross-references: EMBL:U88169; PID:AA842238.1; GSPDB:GN00019; CESP:T03F1.10
A:Experimental source: strain Bristol N2; clone T03F1
C:Genetics:
A:Gene: CESP:T03F1.10
A:Map position: 1
A:Introns: 4/2; 134/1; 153/3; 189/1; 205/3; 245/3

Query Match 12.4%; Score 138; DB 2; Length 280;
Best Local Similarity 28.6%; Pred. No. 0.0001;
Matches 42; Conservative 18; Mismatches 55; Indels 32; Gaps 6;

QY 20 CYKVIYFDHTSRRLNFBEAKEACRRDGGQLVISEDQKLIKFIENLLPS----- 71
| | | | : : : : | | | | : : : : | | | | : : : :
DB 151 CYKT-----TVQFTNFNDARGCAQADGGDLASIHAE----NAFLVLGRKITNKXD 201
| | | | : : : : | | | | : : : : | | | | : : : :

QY 72 -DGDFTWGLRRREKQSNSTACQDLVAVTDSISQFRNMYVDEP--SCGSEVGVVWYHQS 129
 Db 202 WNDVVWGLVYQNSK-----WQWTDGSVNVVWVNGDGEPPNNMKEMWTALVADPH 251
 QY 130 APAGIGGPPYFQWDDRCNMKNFICK 156
 Db 252 EGNSEGT---RWNVVQDDQRAFLCK 275

RESULT 45
 S34198
 IGE FC receptor II, low-affinity - rat
 N:Alternate names: CD23; lymphocyte IGE receptor
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 22-Jun-1999
 C:Accession: S34198
 R:Floros-Romo, L.; Shield, J.; Humbert, Y.; Graber, P.; Aubry, J.P.; Gauchat, J.F.; Ayal
 submitted to the EMBL Data Library, June 1993
 A:Description: Inhibition of an in vivo antigen-specific IGE response by antibodies to C
 A:Reference number: S34198
 A:Accession: S34198
 A:Molecule type: mRNA
 A:Residues: 1-309 <FLO>
 A:Cross-references: EMBL:X73579; NID:g313672; PIDN:CAAS1981.1; PID:g313673
 C:Superfamily: IGE receptor II; C-type lectin homology
 C:Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; tu
 F:1-25/Domain: intracellular #status predicted <INT>
 F:14-22/Region: stop-transfer sequence
 F:24-46/Domain: transmembrane #status predicted <TM>
 F:47-309/Domain: extracellular #status predicted <EXT>
 F:126-309/Product: soluble IGE-binding factor (29k) #status predicted <IGI>
 F:149-309/Product: soluble IGE-binding factor (25-27k) #status predicted <BFI>
 F:164-283/Domain: C-type lectin homology <LCH>
 F:192-283,260-274/Disulfide bonds: #status predicted

Query Match 12.3%; Score 137.5; DB 1; Length 309;
 Best Local Similarity 31.1%; Pred. No. 0.00013;
 Matches 46; Conservative 21; Mismatches 38; Indels 43; Gaps 9;

QY 17 QRPCKVIVFHTSRLNFEAKEACRRDGGQLVSEDEQKLEKFIENLLPSDGDWF 76
 Db 172 QKCY---YFGSGSKQ--WQAKFTCSDLGRLVSIHQKQDFLMQH-----NKESW 221
 QY 77 IGLRREKQSNSTACQDL-----YAVTDSISQFRNMYVDEPSCG--SEVGVVWYHQS 129
 Db 222 IGL-----QDLNMEGEFVWPDGSPGVGYNNPGEPPNNGGQDCVNM----- 263

QY 130 APAGIGGPPYFQWDDRC-NMKNFICK 156
 Db 264 --RGSG-----QWDAFCRSYLDWVCE 284

RESULT 46
 JCS377
 L-selectin precursor - hamadryas baboon
 C:Species: Papio hamadryas (hamadryas baboon)
 C>Date: 02-Jun-1997 #sequence_revision 12-Sep-1997 #text_change 21-Jan-2000
 C:Accession: JCS377; PC4315
 R:Tsurushita, N.; Fu, H.; Berg, E.L.
 Gene 181, 219-220, 1996
 A:Title: PCR cloning of the cDNA encoding baboon L-selectin.
 A:Reference number: JCS377; MUID:97128794; PMID:8973334
 A:Accession: JCS377
 A:Molecule type: mRNA
 A:Residues: 1-372 <TSU1>
 A:Cross-references: GB:U52074; NID:g1326148; PIDN:AAB40903.1; PID:g1326149
 A:Accession: PC4315
 A:Molecule type: protein
 A:Residues: 37-43;142-148 <TSU2>
 C:Comment: This receptor is involved in the initial adhesive interaction between lymphoc
 sites of inflammation.
 C:Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;

F:1-38/Domain: signal sequence #status predicted <SIG>
 F:29-155/Domain: C-type lectin homology <LCH>
 F:39-372/Product: L-selectin #status predicted <MAT>
 F:39-157/Domain: calcium-binding #status predicted <CAB>
 F:160-191/Domain: EGF homology <EGF>
 F:197-254/Domain: complement factor H repeat homology <FHL>
 F:259-316/Domain: complement factor H repeat homology <FH2>
 F:336-355/Domain: transmembrane #status predicted <TM>
 F:353-372/Domain: intracellular #status predicted <INT>

Query Match 12.3%; Score 137.5; DB 2; Length 372;
 Best Local Similarity 28.0%; Pred. No. 0.00016;
 Matches 44; Conservative 31; Mismatches 53; Indels 29; Gaps 9;

QY 26 FHTSRLNFEAKEACRRDGGQLVSEDEQKLEKFIENLLP--SDGDFWGLRRREE 84
 Db 41 YHSEPNWQKARRFCRENYTDLVAIQNKAE---IE-VLEKTLPPSPSYWIGIRK--- 93
 QY 85 QKSNSTACQDLVAV--TDGSIQ--FRNMYVDEPS--CGSEVGVVWYHQSAPAGIGGPPY 139
 Db 94 -----IGIWTWGTNKSILTAEANWGDGEPNNKNKEDCVETIYIKRKQAG----- 140

QY 140 FQWDDRCNMKNFICKYSDKPAVPSREAGSETEL 176
 Db 141 -KWDDACHPKAALCVTASCQPW--SCSGHGECVEI 174

RESULT 47
 JC4892
 L-selectin precursor - rabbit
 C:Species: Oryctolagus cuniculus (domestic rabbit)
 C>Date: 04-Sep-1998 #sequence_revision 04-Sep-1998 #text_change 21-Jan-2000
 C:Accession: JC4892
 R:Qian, J.; Huang, X.; Marks, R.M.
 Biochem. Biophys. Res. Commun. 225, 406-412, 1996
 A:Title: Cloning of the cDNA for rabbit L-selectin and expression of recombinant protein
 A:Reference number: JC4892; MUID:96354800; PMID:8753776
 A:Accession: JC4892
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-376 <QIA>
 A:Cross-references: GB:U26535; NID:9847787; PIDN:AAAG7896.1; PID:9847788
 C:Comment: This protein involved in leukocyte-endothelial adhesion; it mediates adhesion
 C:Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology; F
 F:1-37/Domain: signal sequence #status predicted <SIG>
 F:29-155/Domain: C-type lectin homology <LCH>
 F:39-372/Product: L-selectin #status predicted <MAT>
 F:160-191/Domain: EGF homology <EGF>
 F:197-254/Domain: complement factor H repeat homology <FHL>
 F:259-316/Domain: complement factor H repeat homology <FHR>

Query Match 12.3%; Score 137.5; DB 2; Length 376;
 Best Local Similarity 27.4%; Pred. No. 0.00016;
 Matches 43; Conservative 33; Mismatches 52; Indels 29; Gaps 9;

QY 26 FHTSRLNFEAKEACRRDGGQLVSEDEQKLEKFIENLLP--SDGDFWGLRRREE 84
 Db 41 YHSEPNWQKARRFCRENYTDLVAIQNKAE---IE-VLEKTLPPSPSYWIGIRK--- 93
 QY 85 QKSNSTACQDLVAV--TDGSIQ--FRNMYVDEPS--CGSEVGVVWYHQSAPAGIGGPPY 139
 Db 94 -----IGIWTWGTNKSILTAEANWGDGEPNNKNKEDCVETIYIKLRDSG----- 140

QY 140 FQWDDRCNMKNFICKYSDKPAVPSREAGSETEL 176
 Db 141 -KWDDSCCKRAALCVTASCCHPG--SCSGHGECVEV 174

RESULT 48
 I51921
 pulmonary surfactant-associated protein A1 - human
 N:Alternate names: SP-A1
 C:Species: Homo sapiens (man)

RESULT 50

A37194 pancreatic thread protein precursor - bovine

C;Species: Bos primigenius taurus (cattle)
 21 Jan-1992 #sequence revision 31-Jan-1992 #text change 20-Aug-1999

C;Accession: A37194; A53897

J. Clin. Invest. 86, 1004-1013, 1990

A;Title: Enhanced expression of an excitatory
A:Reference number: A37194; MUID:90368981; PI

A;Accession: A37194
Molecule type: mRNA

A;Residues: 1-175

R; Cai, L.; Harris, W.R.; Marshak, D.R.; Gross, J.; Crabb, J.W.

A;Title: Structural analysis of bovine pancre

A;Reference number: A53897; MUID:911197388; FMID:2085387
A:Accession: A53897

A; Molecule type: protein

C;Comment: The purified protein undergoes a reversible globule-fibril trans

C;Keywords: disulfide bond; extracellular pr

F:38-138/Product: pancreatic trypsin chain A #P00938
F:40-171/Domain: C-type lectin homology <LCH>

F;141-175/Product: pancreatic thread protein

Query Match 12.2%; Score 136; DB 2; Length 175;

Matches	41; Conservative	23; Mismatch
---------	------------------	--------------

5 LLSGQPVCRGGT---QRPCYKVIYFHDTSRRLNFEEAKEAC-RRDGGQLVSI ESEDEQKL

33 I.PSARISCPSSGMAYRSHCYALEKTPKT---

0- 61 I E X T E N T I . I . P S D C D E W I G I . P R P R E K O S N S T A C O D I . Y A W T D G S I S O F R N W Y V D E P S C G S E V

[illegible]

Country	Year	Value
Algeria	1990	0.00
Algeria	1991	0.00
Algeria	1992	0.00
Algeria	1993	0.00
Algeria	1994	0.00
Algeria	1995	0.00
Algeria	1996	0.00
Algeria	1997	0.00
Algeria	1998	0.00
Algeria	1999	0.00
Algeria	2000	0.00
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Algeria	2002	0.00
Algeria	2003	0.00
Algeria	2004	0.00
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Algeria	2016	0.00
Algeria	2017	0.00
Algeria	2018	0.00
Algeria	2019	0.00
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Algeria	2031	0.00
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Algeria	2033	0.00
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Algeria	2060	0.00
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Algeria	2083	0.00
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Algeria	2088	0.00
Algeria	2089	0.00
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Algeria	2091	0.00
Algeria	2092	0.00
Algeria	2093	0.00
Algeria	2094	0.00
Algeria	2095	0.00
Algeria	2096	0.00
Algeria	2097	0.00
Algeria	2098	0.00
Algeria	2099	0.00
Algeria	2100	0.00
Algeria	2101	0.00
Algeria	2102	

QY IZL CVMIHQSFAFGTGF -----IN : :

D6
137 -----PAAISSPGYCGSLSRSSGYL-KWRDHNCNENLFIVCNFID 173

0
1
2
3
4
5
6
7
8
9

Job time : 42 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:23:47 ; Search time 23 Seconds
(without alignments)
466.367 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227

Perfect score: 1115
Sequence: 1 ATGRLSQPVCRGTQPC.....BEDAKTFKESREAAALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	574	51.5	273	1	CHOD_MOUSE
2	561.5	50.4	273	1	CHOD_HUMAN
3	182	16.3	1456	1	MANR_HUMAN
4	177	15.9	1268	1	PGCN_MOUSE
5	176	15.8	1321	1	PGCN_HUMAN
6	174.5	15.7	3381	1	PGCV_BOVIN
7	174	15.6	1257	1	PGCV_RAT
8	174	15.6	2738	1	PGCV_MOUSE
9	174	15.6	3398	1	PGCV_HUMAN
10	171	15.3	3562	1	PGCV_CHICK
11	171	15.3	3562	1	CD93_RAT
12	165	14.8	643	1	CD93_HUMAN
13	158.5	14.2	2364	1	PGCA_BOVIN
14	158.5	14.2	2415	1	PGCA_HUMAN
15	155.5	13.9	2333	1	PGCA_CANFA
16	154.5	13.9	612	1	LEW2_MOUSE
17	153.5	13.8	644	1	CD93_MOUSE
18	153.5	13.8	2124	1	PGCA_RAT
19	152	13.6	912	1	PGCB_BOVIN
20	151.5	13.6	652	1	CD93_HUMAN
21	151	13.5	197	1	CLE1_HUMAN
22	149	13.4	321	1	PGCB_HUMAN
23	148.5	13.3	2132	1	PGCA_MOUSE
24	147	13.2	883	1	PGCB_MOUSE
25	146	13.1	2109	1	PGCA_CHICK
26	145	13.0	158	1	LECG_TRIST
27	145	13.0	883	1	PGCB_RAT
28	144.5	13.0	173	1	LECG_MEGRO
29	144.5	13.0	372	1	LEW1_RAT
30	143.5	12.9	372	1	LEW1_MOUSE
31	141.5	12.7	331	1	FCB2_MOUSE
32	141.5	12.7	549	1	LEW2_RAT
33	140.5	12.6	162	1	LECG_MEGRO

34 140 12.6 370 1 LEM1_BOVIN
35 139 12.5 248 1 PSPA_HUMAN
36 139 12.5 283 1 LECA_SARPE
37 138.5 12.4 152 1 IXA_TRIFL
38 138.5 12.4 202 1 TETN_MOUSE
39 137.5 12.3 372 1 LEM1_MACMU
40 137.5 12.3 372 1 LEM1_PAPHA
41 136 12.2 175 1 LITH_BOVIN
42 135 12.1 165 1 LIT1_MOUSE
43 134.5 12.1 132 1 ACAL_PONAN
44 134.5 12.1 372 1 LEM1_PONPY
45 134.5 12.1 485 1 LEM2_BOVIN
46 134 12.0 166 1 TETN_CARSP
47 133.5 12.0 133 1 ECHA_EHCA
48 133.5 12.0 311 1 LEC1_HUMAN
49 132.5 11.9 372 1 LEM1_HUMAN
50 132.5 11.9 372 1 LEM1_PANTR

ALIGNMENTS

RESULT 1
CHOD_MOUSE
ID CHOD_MOUSE STANDARD; PRT; 273 AA.
AC Q9CXM0; Q8V131;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Chondiolectin precursor (Transmembrane protein MT75).
GN CHODL
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognath.; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Weng L., Smits P., Hubner R., Wouters J., Merregaert J.;
RT "Mt75, a low expressed c-type lectin gene involving in
RT chondrogenesis."
RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
[2]
SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Embryonic head;
MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaudo I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Momabets P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Yuzhakov-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection."
RL Nature 409:695-690(2001).
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way

DR Pfam; PF00193; Xlink; 2.
 DR PRINTS; PRO0356; ANTIFREEZEII.
 DR PRINTS; PRO1265; LINKMODULE.
 DR ProDom; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00409; IG; 1.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX_HYDROXYL; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 DR PROSITE; PS00041; C-TYPE LECTIN 2; 1.
 DR PROSITE; PS00022; EGF 1; 3.
 DR PROSITE; PS01186; EGF 2; 1.
 DR PROSITE; PS00026; EGF 3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG_LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 DR Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
 KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal.
 FT SIGNAL 1 22
 FT CHAIN 23 1268
 FT DOMAIN 37 157
 FT DOMAIN 158 253
 FT DOMAIN 259 355
 FT DOMAIN 960 996
 FT DOMAIN 998 1034
 FT DOMAIN 1036 1165
 FT DOMAIN 1166 1224
 FT DISULFID 58 139
 FT DISULFID 181 252
 FT DISULFID 205 226
 FT DISULFID 279 354
 FT DISULFID 303 324
 FT DISULFID 964 975
 FT DISULFID 969 984
 FT DISULFID 986 995
 FT DISULFID 1040 1051
 FT DISULFID 1068 1160
 FT DISULFID 1136 1152
 FT DISULFID 1167 1210
 FT DISULFID 1196 1223
 FT CARBOHYD 121 121
 FT CARBOHYD 339 339
 FT CARBOHYD 742 742
 FT CARBOHYD 978 978
 FT CARBOHYD 1175 1175
 SQ SEQUENCE 1268 AA; 137200 MW; 3014F8E202A2FAEC CRC64;

Query Match 15.9%; Score 177; DB 1; Length 1268;
 Best Local Similarity 31.5%; Pred. No. 7.6e-08;
 Matches 45; Conservative 17; Mismatches 49; Indels 32; Gaps 6;

OY 17 QRPCKVIVFHDTSRLNPEBAKEACRRDGGOLVSISEDEQKLEKFIENLLPSDGF 76
 Db 1048 QQCHVR--YF---AHRRAWEADAECDRCRAGHLTVSHSPEEHKFINSP-----CHENSW 1096
 OY 77 IGLRREEKQNSTACQDIYAWTDGSIQFRNYYDEPS---CGSECVVMYHQPSAPAG 133
 Db 1097 IGLNDRTVRD-----FQWTDNTGLQYENWRKQPDNFFAGGDCVVMVAHESG--- 1145
 OY 134 IGGPYMFWNDRCNMKNPFCK 156
 Db 1146 -----RWNDVPCYNLPYVCK 1161

RESULT 5
 PGCN HUMAN
 ID_PGCN_HUMAN STANDARD; PRT; 1321 AA.
 AC OL4594; Q9UPK6;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE CSFG3 OR NCAN OR NEUR.
 GN Homo sapiens (Human).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 CX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99013874; PubMed=9795216;
 RA Prange C.K., Pennacchio L.A., Lieuallen K., Fan W., Lennon G.G.;
 RT "Characterization of the human neurocan gene, CSFG3.";
 RL Gene 221:199-205(1998).
 RN [2]
 RP SEQUENCE OF 1-990 AND 1007-1321 FROM N.A., AND VARIANT ALA-1254.
 RA Lamerdin J.E., McCreedy P.M., Skowronski E., Adamson A.W.,
 RA Burkhardt-Schultz K., Gordon L., Kyle A., Ramirez M., Stillwagen S.,
 RA Phan H., Velasco N., Do L., Regala W., Terry A., Ganes J.,
 RA Danganan L., Poundstone P., Christensen M., Georgescu A., Avila J.,
 RA Liu S., Attix C., Andreise T., Frankheim M., Amico-Keller G.,
 RA Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,
 RA Kronmiller B., Arellano A., Montgomery M., Ow D., Nolan M., Trong S.,
 RA Kobayashi A., Olsen A.S., Carrao A.V.;
 RT "Sequence analysis of an ~1 Mb region containing the MEF2B gene in
 19p12.";
 RT Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
 RL CC -!- FUNCTION: May modulate neuronal adhesion and neurite growth during
 CC development by binding to neural cell adhesion molecules (NG-CAM
 CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
 CC acid.
 CC -!- TISSUE SPECIFICITY: Brain.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC
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 CC -----
 CC EMBL; AF026547; AAC80576.1; .
 CC EMBL; AC003110; AAB86655.1; .
 CC EMBL; AC005254; AAC25581.1; .
 CC HSSP; P00740; 1EDM.
 CC Genew. HGNC:2465; CSFG3.
 CC MIM; 600826; .
 CC InterPro; IPR000152; Asx_hydroxyl_S.
 CC InterPro; IPR000742; EGF 2.
 CC InterPro; IPR001881; EGF_CA.
 CC InterPro; IPR006209; EGF-like.
 CC InterPro; IPR007110; Ig-Like.
 CC InterPro; IPR003599; Ig.
 CC InterPro; IPR003304; Lectin_C.
 CC InterPro; IPR000538; Link.
 CC InterPro; IPR000436; Sushi_SCR_CCP.
 CC Pfam; PF00008; EGF; 2.
 CC Pfam; PF00047; Ig; 1.
 CC Pfam; PF00059; lectin_c; 1.
 CC Pfam; PF00084; sushi; 1.
 CC Pfam; PF00084; sushi; 2.
 CC Pfam; PF0193; Xlink; 2.
 CC PRINTS; PRO1265; LINKMODULE.
 CC ProDom; PD000918; Link; 2.
 CC SMART; SM00032; CCP; 1.
 CC SMART; SM00034; CLECT; 1.
 CC SMART; SM00179; EGF_CA; 1.
 CC SMART; SM00409; IG; 1.
 CC SMART; SM00445; LINK; 2.
 CC PROSITE; PS00010; ASX_HYDROXYL; 1.
 CC PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 CC PROSITE; PS00041; C-TYPE LECTIN 2; 1.
 CC PROSITE; PS00022; EGF 1; 3.
 CC PROSITE; PS01186; EGF 2; 1.
 CC PROSITE; PS00026; EGF 3; 2.
 CC PROSITE; PS01187; EGF_CA; 1.
 CC PROSITE; PS00835; IG_LIKE; 1.
 CC PROSITE; PS01241; LINK; 2.

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DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
DR PROSITE; PS00041; C TYPE LECTIN 2; 1.
DR PROSITE; PS00022; EGF 1; 3.
DR PROSITE; PS01186; EGF 2; 1.
DR PROSITE; PS00026; EGF 3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal; Polymorphism.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 1321 NEUROCAN CORE PROTEIN.
FT DOMAIN 38 153 IG-LIKE V-TYPE.
FT DOMAIN 159 254 LINK 1.
FT DOMAIN 260 356 LINK 2.
FT DOMAIN 1008 1044 EGF-LIKE 1.
FT DOMAIN 1045 1082 EGF-LIKE 2, CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 1084 1213 C-TYPE LECTIN.
FT DOMAIN 1214 1272 SUSHI.
FT DISULFID 59 140 BY SIMILARITY.
FT DISULFID 182 253 BY SIMILARITY.
FT DISULFID 206 227 BY SIMILARITY.
FT DISULFID 280 355 BY SIMILARITY.
FT DISULFID 304 325 BY SIMILARITY.
FT DISULFID 1012 1023 BY SIMILARITY.
FT DISULFID 1017 1032 BY SIMILARITY.
FT DISULFID 1034 1043 BY SIMILARITY.
FT DISULFID 1088 1099 BY SIMILARITY.
FT DISULFID 1116 1208 BY SIMILARITY.
FT DISULFID 1184 1200 BY SIMILARITY.
FT DISULFID 1215 1258 BY SIMILARITY.
FT DISULFID 1244 1271 BY SIMILARITY.
FT CARBOHYD 122 122 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 340 340 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1026 1026 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1223 1223 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARIANT 1254 1254 V -> A (in dbSNP:1064389).
FT CONFLICT 1234 1234 N -> Y (IN REF. 2).
FT CONFLICT 1282 1282 G -> R (IN REF. 2).
SQ SEQUENCE 1321 AA; 142972 MW; 2EF47F823DB980B8 CRC64;

Query Match
Best Local Similarity 15.8%; Score 176; DB 1; Length 1321;
Matches 45; Conservative 18; Mismatches 48; Indels 32; Gaps 6;

QY 17 QRPCKVYVHTSRNLNFEAKACRRDGGOLVIESDEQKLEKFIENLLPSDGDWF 76
DB 1096 QGHCVR--YF--AHRRAMEDAKCRRSGHLTSVHSPEHSFINSP-----GHENTW 1144
QY 77 IGLRREERQSNSTACQDLYANTDGSISOFNRWYVDERS---CGSEVCVMWYHQPAPAG 133
DB 1145 IGLNDRIVERD-----FQWDTGTCGFQFNWRENQDNFAGGDCVWVAHESG--- 1193
QY 134 IGGPYNFQWDRDRKNKNFICK 156
DB 1194 -----RWNDVPCNVLPIYVCK 1209

RESULT 6
PGCV_BOVIN STANDARD; PRT; 3381 AA.
AC P81282; O77609; O77610; O77611; O77612;
DT 15-DEC-1998 (Rel. 37, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial
GN hyaluronate-binding protein) (GHAP).
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;

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OC BOVIDAE; BOVINAE; BOS.
OX NCBI_TaxID=9913;
RX [1]_
RP SEQUENCE FROM N.A. (ISOFORMS VO; V1; V2 AND V3).
RC TISSUE=Forebrain;
RX MEDLINE=98288320; PubMed=9624174;
RA Zimmermann D.R.;
RA Schmalfeldt M.; Dours-Zimmermann M.T.; Winterhalter K.H.;
RT "Versican V2 is a major extracellular matrix component of the mature
RT bovine brain.";
RL J. Biol. Chem. 273:15758-15764(1998).
RP [2]
RN SEQUENCE OF 21-53; 78-96; 226-250; 262-277; 295-306; 314-324; 329-331
RN AND 342-348.
RC TISSUE=Spinal cord;
RX MEDLINE=92062692; PubMed=1720020;
RA Perides G.; Biviano F.; Bignami A.;
RT "Interaction of a brain extracellular matrix protein with hyaluronic
RT acid.";
RL Biochim. Biophys. Acta 1075:248-258(1991).
CC -!- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -!- SUBUNIT: Interacts with PBLN1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=4;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=P81282-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=P81282-2; Sequence=VSP_003078, VSP_003079;
CC Name=V2;
CC IsoId=P81282-3; Sequence=VSP_003080;
CC Name=V3;
CC IsoId=P81282-4; Sequence=VSP_003081, VSP_003081;
CC -!- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 are expressed
CC in the central nervous system, and in a number of mesenchymal and
CC epithelial tissues; the major isoform V2 is restricted to the
CC central nervous system.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
CC
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CC
CC EMBL; AF060456; AAC24358.1; -
CC EMBL; AF060457; AAC24359.1; -
CC EMBL; AF060458; AAC24360.1; -
CC EMBL; AF060459; AAC24361.1; -
CC PIR; T14274; T14274.
CC PIR; T42389; T42389.
CC HSP; P01132; IEPG.
CC InterPro; IPR000152; Asx_hydroxyl_s.
CC InterPro; IPR000742; EGF_2.
CC InterPro; IPR001881; EGF_Ca.
CC InterPro; IPR006209; EGF_Like.
CC InterPro; IPR007110; Ig-Like.
CC InterPro; IPR003599; Ig.
CC InterPro; IPR001304; Lectin_C.
CC InterPro; IPR000538; Link.

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[illegible]

CC development by binding to neural cell adhesion molecules (NG-CAM
CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
CC acid.
CC
CC -/- TISSUE SPECIFICITY: Early postnatal and adult brain; not expressed
CC in kidney, lung, liver and muscle.
CC
CC -/- PTM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND
CC O-LINKED OLIGOSACCHARIDES (BY SIMILARITY).
CC
CC -/- PTM: TWO ISOFORMS WERE FOUND THAT PROBABLY ARISE BY PROTEOLYTIC
CC DEGRADATION. THE LARGE ISOFORM IS PREDOMINANT IN EARLY POSTNATAL
CC BRAIN, THE SMALL ISOFORM IS FOUND IN ADULT BRAIN.
CC
CC -/- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC
CC -/- SIMILARITY: Contains 2 EGF-like domains.
CC
CC -/- SIMILARITY: Contains 1 C-type lectin family domain.
CC
CC -/- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC
CC -/- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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CC
CC -----
CC EMBL; M97161; AAC37679.1; -
CC PIR; S28764; S28764.
CC HSP; P00740; IEDM.
CC InterPro: IPR002353; Antifreeze1.
CC InterPro: IPR000152; Asx_hydroxyl_S.
CC InterPro: IPR000742; EGF_2.
CC InterPro: IPR001881; EGF_Ca.
CC InterPro: IPR006209; EGF_Like.
CC InterPro: IPR007110; Ig-Like.
CC InterPro: IPR003599; Ig.
CC InterPro: IPR001304; Lectin_C.
CC InterPro: IPR000538; Link.
CC InterPro: IPR000436; Sushi_SCR_CCP.
CC Pfam; PF00008; EGF; 2.
CC Pfam; PF00047; Ig; 1.
CC Pfam; PF00059; lectin_c; 1.
CC Pfam; PF00084; sushi; 1.
CC Pfam; PF00193; Xlink; 2.
CC PRINTS; PR00356; ANTIFREEZE1.
CC PRINTS; PR01285; LINKMODULE.
CC ProDom; PD000918; Link; 2.
CC SMART; SM00032; CCF; 1.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00179; EGF_CA; 1.
CC SMART; SM00409; IG_1.
CC SMART; SM00445; LINK; 2.
CC PROSITE; PS00010; ASX_HYDROXYL; 1.
CC PROSITE; PS00615; C-TYPE LECTIN_1; 1.
CC PROSITE; PS00941; C-TYPE LECTIN_2; 1.
CC PROSITE; PS00022; EGF_1; 3.
CC PROSITE; PS01186; EGF_2; 1.
CC PROSITE; PS00026; EGF_3; 2.
CC PROSITE; PS01187; EGF_CA; 1.
CC PROSITE; PS00835; IG_Like; 1.
CC PROSITE; PS01241; LINK; 2.
CC Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
CC EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal.
CC SIGNAL 1 22
CC CHAIN 23 1257
CC CHAIN 639 1257
CC DOMAIN 37 157
CC DOMAIN 158 253
CC DOMAIN 259 355
CC DOMAIN 949 985
CC DOMAIN 967 1023
CC DOMAIN 1025 1154
CC DOMAIN 1155 1213
CC DISULFID 58 139
CC BY SIMILARITY.

FT DISULFID 181 252 BY SIMILARITY.
FT DISULFID 205 226 BY SIMILARITY.
FT DISULFID 279 354 BY SIMILARITY.
FT DISULFID 303 324 BY SIMILARITY.
FT DISULFID 953 964 BY SIMILARITY.
FT DISULFID 958 973 BY SIMILARITY.
FT DISULFID 975 984 BY SIMILARITY.
FT DISULFID 1029 1040 BY SIMILARITY.
FT DISULFID 1057 1149 BY SIMILARITY.
FT DISULFID 1125 1141 BY SIMILARITY.
FT DISULFID 1156 1199 BY SIMILARITY.
FT DISULFID 1185 1212 BY SIMILARITY.
FT CARBOHYD 121 121 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 339 339 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 737 737 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 944 944 O-LINKED (XYL. .) (CHONDROITIN SULFATE).
FT CARBOHYD 967 967 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1164 1164 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 1257 AA; 135544 MW; 992B33DCFA19EE1B CRC64;
Query Match 15.6%; Score 174; DB 1; Length 1257;
Best Local Similarity 30.8%; Pred. No. 1.4e-07;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;
Oy 17 ORPCYKVIYPHDTSRLNTEFEAKCRRDGGQLVSTESDEOKLIEKFTIENLLPSDGDW 76
Db 1037 QGHCYR--YF--AHRRWEDAEEDCRRRAGHLTVSHPEEHKFINSF-----GHENSW 1085
Oy 77 IGLRRREEKQSNSTACQDLYAVTDGSGISOFNRYVDEPS--CGSEVVCVYVYHQSPAPAG 133
Db 1086 IGLNDRTERD-----FQWDTGLQYENREXQPNFAGGDCVYVYAHENG---- 1134
Oy 134 IGGPYMFQWNNDRCNMKNPFICK 156
Db 1135 -----RWNDVPCVNYLPYVCK 1150
RESULT 8
PGCV RAT STANDARD; PRT; 2738 AA.
ID PGCV RAT
AC Q9ERB4; O08592; O88564; Q9RIK4;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glia)
DE hyaluronate-binding protein (GHAP) (Fragments).
GN CP8G2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0), SEQUENCE FROM N.A.
RC (ISOFORM V3), AND SEQUENCE OF 2657-2738 FROM N.A. (ISOFORM VINT).
RC STRAIN=Mistar Kyoto;
RX MEDLINE=93327053; PubMed=10397680;
RA Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,
RA Wright T.N.;
RT "Versican/PG-M isoforms in vascular smooth muscle cells."
RL Arterioscler. Thromb. Vasc. Biol. 19:1630-1639(1999).
RN [2]
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0).
RC STRAIN=Mistar Kyoto;
RX MEDLINE=98308094; PubMed=9642104;
RA Milev P., Maurel P., Chiba A., Mevissen M., Popp S., Yamaguchi Y.,
RA Margolis R.K., Margolis R.U.;
RT "Differential regulation of expression of hyaluronan-binding
RT proteoglycans in developing brain: aggrecan, versican, neurocan, and
RL Biochem. Biophys. Res. Commun. 247:207-212(1998).
RN [3]
RP SEQUENCE OF 2421-2463 FROM N.A. (ISOFORM V0).

CC TISSUE=Kidney;
 RX MEDLINE=98094159; PubMed=9434070;
 RA Pyke C., Kristensen P., Ostergaard P.B., Oturai P.S., Romer J.;
 RT "Proteoglycan expression in the normal rat kidney.";
 RL Nephron 7:461-470(1997).
 RP [4]
 RN SEQUENCE OF 2535-2738 FROM N.A.
 RC STRAIN=Sprague-Dawley; TISSUE=Lung;
 RA Blomberg L.A., Chan W.-Y., Clerch L., Massaro D.;
 RT "Molecular cloning and characterization of two developmentally
 regulated genes in rat lung.";
 RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 connecting cells with the extracellular matrix. May take part in
 the regulation of cell motility, growth and differentiation. Binds
 hyaluronic acid.
 CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=3;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=Q9ERB4-1; Sequence=Displayed;
 CC Name=V3;
 CC IsoId=Q9ERB4-2; Sequence=VSP_003091;
 CC Name=Vint;
 CC IsoId=Q9ERB4-3; Sequence=VSP_003092;
 CC -!- TISSUE SPECIFICITY: In kidney is expressed in the papillary area,
 but not in glomeruli.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
 (By similarity).
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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 CC
 CC EMBL; AF062402; AAC40166.1; -;
 DR EMBL; U75306; AAB51125.1; -;
 DR EMBL; AF084544; AAD48544.1; -;
 DR EMBL; AF072892; AAC26116.1; -;
 DR EMBL; AY007691; AAG16631.1; -;
 DR HSP; P01132; IEPG.
 DR InterPro; IPR000152; Asx hydroxyl_S.
 DR InterPro; IPR000742; EGF 2.
 DR InterPro; IPR001881; EGF Ca.
 DR InterPro; IPR006209; EGF like.
 DR InterPro; IPR007110; Ig-Like.
 DR InterPro; IPR003599; Ig.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR PRINTS; PR01265; LINKMODULE.
 DR ProDom; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00409; IG; 1.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX HYDROXYL; 1.
 DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
 DR PROSITE; PS00041; C TYPE LECTIN 2; 1.
 DR PROSITE; PS00022; EGF_1; 2.
 DR PROSITE; PS01186; EGF_2; 1.

DR PROSITE; PS50026; EGF_3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS08035; IG LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
 KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
 KW Hyaluronic acid; Alternative splicing.
 FT SIGNAL 1 20
 FT CHAIN 21 2738 POTENTIAL.
 FT NON CONS 348 349 VERSICAN CORE PROTEIN.
 FT DOMAIN 21 146 IG-LIKE V-TYPE.
 FT DOMAIN 167 244 LINK 1.
 FT DOMAIN 265 346 LINK 2.
 FT DOMAIN <349 695 GAG-ALPHA
 (GLUCOSAMINOGLYCAN ATTACHMENT DOMAIN).
 FT DOMAIN 696 2431 GAG-BETA.
 FT DOMAIN 2431 2467 EGF-LIKE 1.
 FT DOMAIN 2469 2505 EGF-LIKE 2. CALCIUM-BINDING.
 FT DOMAIN 2518 2632 C-TYPE LECTIN.
 FT DOMAIN 2637 2695 SUSHI.
 FT DISULFID 44 130 BY SIMILARITY.
 FT DISULFID 172 243 BY SIMILARITY.
 FT DISULFID 196 217 BY SIMILARITY.
 FT DISULFID 270 345 BY SIMILARITY.
 FT DISULFID 294 315 BY SIMILARITY.
 FT DISULFID 2435 2446 BY SIMILARITY.
 FT DISULFID 2440 2455 BY SIMILARITY.
 FT DISULFID 2457 2466 BY SIMILARITY.
 FT DISULFID 2473 2484 BY SIMILARITY.
 FT DISULFID 2478 2493 BY SIMILARITY.
 FT DISULFID 2495 2504 BY SIMILARITY.
 FT DISULFID 2511 2522 BY SIMILARITY.
 FT DISULFID 2539 2631 BY SIMILARITY.
 FT DISULFID 2607 2623 BY SIMILARITY.
 FT DISULFID 2638 2681 BY SIMILARITY.
 FT DISULFID 2667 2694 BY SIMILARITY.
 FT CARBOHYD 57 57 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 330 330 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 692 692 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 758 758 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 802 802 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 805 805 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1257 1257 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1435 1435 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1633 1633 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1660 1660 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1684 1684 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1738 1738 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 1848 1848 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 2004 2004 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 2409 2409 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 2711 2711 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 2721 2721 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT VARSPLIC 349 2431 Missing (in isoform V3).
 FT VARSPLIC 2697 2738 /FTId=VSP_003091.
 FT PSAYORTYKSKYKJKNSSVKDINSINTSKHEHRSRWQETPR
 R -> RKWSPKNGQPCFNKY (in isoform Vint).
 FTId=VSP_003092.
 FT AEREK -> NSARG (IN REF. 4).
 FT CONFLICT 2535 2539 AEREK -> NSARG (IN REF. 4).
 FT SEQUENCE 2738 AA; 300004 MW; 12CA626D58BD8C6A CRC64;

Query Match 15.6%; Score 174; DB 1; Length 2738;
 Best Local Similarity 28.5%; Pred. No. 3.7e-07;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
 Qy 17 QRCYKVIYFHDTSRLNFEAKEACRRDGGQIVSTESDEQKLEKFIENLIPSDGF- 75
 Db 2519 QGQCYK--YF---AHRRTWDAERCLQAHUITSLSHEEQMFVRV-----GHYQ 2566
 Qy 76 WIGLRREERQSNSTACQDIYAWTDGSIQSFNRWYVDEP-----SCGEVCVMYHQPSAP 131
 Db 2567 WIGL-----NDKMFHDFRWDGSLQALQYENRNQPDSPFSAGEDCVIWHENG-- 2616

QY 132 AGIGGPFQWDRDCRNKNFNICKYS----DEKPAVPSREAEGE 172
 DB 2617 -----QWIDVFNHLYTCKGTACQPPVWENAKTFGK 2652

RESULT 9
 PGCV MOUSE
 ID PGCV MOUSE STANDARD; PRT; 3358 AA.
 AC O62059; O62058; QSCU00;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Versican core protein precursor (large fibroblast proteoglycan)
 DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M).
 GN CSPG2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS V0; V1 AND V2).
 RC STRAIN=C57BL/6; and Swiss Webster; TISSUE=Brain;
 RX MEDLINE=95122551; PubMed=7822336;
 RA Ito K., Shinomura T., Zako M., Ujita M., Kimata K.;
 RT "Multiple forms of mouse PG-M, a large chondroitin sulfate
 RT proteoglycan generated by alternative splicing";
 RL J. Biol. Chem. 270:958-965(1995).
 RN [2]
 RP SEQUENCE FROM N.A. (ISOFORM V3).
 RC STRAIN=C57BL/6;
 RX MEDLINE=95181355; PubMed=7876137;
 RA Zako M., Shinomura T., Ujita M., Ito K., Kimata K.;
 RT "Expression of PG-M(V3), an alternatively spliced form of PG-M
 RT without a chondroitin sulfate attachment in region in mouse and human
 RT tissues";
 RL J. Biol. Chem. 270:3914-3918(1995).
 RN [3]
 RP SEQUENCE OF 1-1692 FROM N.A. (ISOFORM V1).
 RC STRAIN=C57BL/6; TISSUE=Skin;
 RX MEDLINE=22354683; PubMed=12466851;
 RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
 RA Nikaide I., Oasato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
 RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
 RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
 RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
 RA Blake J.A., Bradt D., Brusci V., Chothia C., Corbani L.E., Cousins S.,
 RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
 RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
 RA Grimond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
 RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
 RA Kongaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
 RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
 RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
 RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
 RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
 RA Sandelin A., Schneider C., Sempke C.A., Setou M., Shimada K.,
 RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
 RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
 RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
 RA Yuan Z., Zavalon M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
 RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
 RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
 RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
 RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
 RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
 RA Birney E., Hayashizaki Y.;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs";
 RL Nature 420:563-573(2002).
 RN [4]
 RP INTERACTION WITH FBLN1.
 RX MEDLINE=99329059; PubMed=10400671;
 RA Aspegg A., Adam S., Kostka G., Timpl R., Heinegaard D.;

"Fibulin-1 is a ligand for the C-type lectin domains of aggrecan and versican";
 J. Biol. Chem. 274:20444-20449(1999).
 -!- FUNCTION: May play a role in intercellular signaling and in connecting cells with the extracellular matrix. May take part in the regulation of cell motility, growth and differentiation. Binds hyaluronic acid.
 -!- SUBUNIT: Interacts with FBLN1.
 -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 -!- ALTERNATIVE PRODUCTS:
 Event=Alternative splicing; Named isoforms=4;
 Comment=Additional isoforms seem to exist;
 Name=V0;
 IsoId=Q62059-1; Sequence=Displayed;
 Name=V1;
 IsoId=Q62059-2; Sequence=VSP_003087, VSP_003088;
 Name=V2;
 IsoId=Q62059-3; Sequence=VSP_003089;
 Name=V3;
 IsoId=Q62059-4; Sequence=VSP_003087, VSP_003090;
 -!- TISSUE SPECIFICITY: V2 is found only in brain.
 -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
 -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 -!- SIMILARITY: Contains 2 link domains.
 -!- SIMILARITY: Contains 2 EGF-like domains.
 -!- SIMILARITY: Contains 1 C-type lectin family domain.
 -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.

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 EMBL; D15263; BAA03796.1; --
 EMBL; D28599; --; NOT ANNOTATED_CDS.
 EMBL; D32040; BAA06802.1; --
 EMBL; AK014525; BAB29411.2; --
 HSP; P01132; IEPG.
 MGD; MGI:102889; Cspg2.
 InterPro; IPR000152; Asx_hydroxyl_s.
 InterPro; IPR000742; EGF_2.
 InterPro; IPR001881; EGF_Ca.
 InterPro; IPR006209; EGF_Like.
 InterPro; IPR007110; Ig-Like.
 InterPro; IPR003599; Ig.
 InterPro; IPR001304; Lectin_C.
 InterPro; IPR000538; Link.
 InterPro; IPR000436; Sushi_SCR_CCP.
 Pfam; PF00008; EGF; 2.
 Pfam; PF00047; Ig; 1.
 Pfam; PF00059; lectin_c; 1.
 Pfam; PF00084; sushi; 1.
 Pfam; PF00193; Xlink; 2.
 PRINTS; PR01265; LINKMODULE.
 PRODOM; PD000918; Link; 2.
 SMART; SM00032; CCP; 1.
 SMART; SM00034; CLECT; 1.
 SMART; SM00179; EGF_CA; 1.
 SMART; SM00409; IG; 1.
 SMART; SM00445; LINK; 2.
 PROSITE; PS00010; ASX_HYDROXYL; 1.
 PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
 PROSITE; PS00022; EGF_1; 2.
 PROSITE; PS01186; EGF_2; 1.
 PROSITE; PS00026; EGF_3; 2.
 PROSITE; PS01187; EGF_CA; 1.
 PROSITE; PS50835; IG_LIKE; 1.
 PROSITE; PS01241; LINK; 2.

KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 20
FT CHAIN 21 3358
FT DOMAIN 21 146
FT DOMAIN 167 244
FT DOMAIN 265 346
FT DOMAIN 348 1308
FT DOMAIN 1309 3052
FT DOMAIN 3052 3088
FT DOMAIN 3090 3126
FT DOMAIN 3129 3253
FT DOMAIN 3258 3316
FT DISULFID 44 130
FT DISULFID 172 243
FT DISULFID 196 217
FT DISULFID 270 333
FT DISULFID 294 315
FT DISULFID 3056 3067
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FT CARBOHYD 330 330
FT CARBOHYD 351 351
FT CARBOHYD 441 441
FT CARBOHYD 807 807
FT CARBOHYD 914 914
FT CARBOHYD 951 951
FT CARBOHYD 1305 1305
FT CARBOHYD 1372 1372
FT CARBOHYD 1679 1679
FT CARBOHYD 2054 2054
FT CARBOHYD 2244 2244
FT CARBOHYD 2362 2362
FT CARBOHYD 2627 2627
FT CARBOHYD 3030 3030
FT CARBOHYD 3332 3332
FT CARBOHYD 3342 3342
FT VARSPLIC 348 348
FT VARSPLIC 349 1308
FT VARSPLIC 1309 3052
FT VARSPLIC 349 3052
FT CONFLICT 126 126
FT CONFLICT 348 348
FT CONFLICT 1658 1658
FT CONFLICT 1674 1680
FT CONFLICT 3358 3358
SQ SEQUENCE 3358 AA; 366938 MW; 071B80026BC0762D CRC64;
Query Match 15.6%; Score 174; DB 1; Length 3358;
Best Local Similarity 28.5%; Pred. No. 4.7e-07;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY 17 QRPCKVIVFHDTSRLNFEAEACRRDGGGLVSTESDEQKLEKFTENLLPSDGF- 75
DB 3140 QGQCYK--YF---AHRTWDAERECRLQGAHLTSLSHBQMFVNRV-----GHYQ 3187
QY 76 WIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP-----SCGSEVVMVYQPSAP 131
DB 3188 WIGL-----NDKMFHDFRWTGSLAQYENWRPNQDPSFSGEDCQVWIWENG-- 3237

QY 132 AGIGGPFQWNDRCNMKNFICKYS-----DEKPAVPSREAGE 172
DB 3238 -----QWNDVPCNYHLTYTCKKGTVACGPPVVENAKTGGK 3273
RESULT 10
PGCV HUMAN STANDARD; PRT: 3396 AA.
AC P13611; P20754; Q13010; Q13189; Q15123; Q9UNW5;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial
DE hyaluronate-binding protein) (GHAP).
GN CSFG2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM V0).
RX MEDLINE=95105188; PubMed=7526742;
RA Naso M.F., Zimmermann D.R., Iozzo R.V.;
RT "Characterization of the complete genomic structure of the human
RT versican gene and functional analysis of its promoter.";
RL J. Biol. Chem. 269:32999-33008(1994).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM V1).
RX TISSUE=Placenta;
RC MEDLINE=90059882; PubMed=2583089;
RA Zimmermann D.R., Ruoslahti E.;
RT "Multiple domains of the large fibroblast proteoglycan, versican.";
RL EMBO J. 8:2975-2981(1989).
RN [3]
RP SEQUENCE FROM N.A. (ISOFORM V2).
RX TISSUE=Glial tumor;
RC MEDLINE=95105187; PubMed=7806529;
RA Dours-Zimmermann M.T., Zimmermann D.R.;
RT "A novel glycosaminoglycan attachment domain identified in two
RT alternative splice variants of human versican.";
RL J. Biol. Chem. 269:32992-32998(1994).
RN [4]
RP SEQUENCE OF 2711-3396 FROM N.A.
RX TISSUE=Lung fibroblast;
RC MEDLINE=88007514; PubMed=2820964;
RA Krusius T., Gehlsen K.R., Ruoslahti E.;
RT "A fibroblast chondroitin sulfate proteoglycan core protein contains
RT lectin-like and growth factor-like sequences.";
RL J. Biol. Chem. 262:13120-13125(1987).
RN [5]
RP SEQUENCE OF 251-347 FROM N.A.
RX MEDLINE=93122792; PubMed=1478664;
RA Iozzo R.V., Naso M.F., Cannizzaro L.A., Wasmuth J.J.,
RA McPherson J.D.;
RT "Mapping of the versican proteoglycan gene (CSPG2) to the long arm of
RT human chromosome 5 (5q12-5q14).";
RL Genomics 14:845-851(1992).
RN [6]
RP SEQUENCE FROM N.A. (ISOFORM V3).
RX TISSUE=Brain;
RC MEDLINE=95181355; PubMed=7876137;
RA Zako M., Shimomura T., Ujita M., Ito K., Kimata K.;
RT "Expression of PG-M(V3), an alternatively spliced form of PG-M
RT without a chondroitin sulfate attachment in region in mouse and human
RT tissues.";
RL J. Biol. Chem. 270:3914-3918(1995).
RN [7]
RP SEQUENCE OF 3333-3396 FROM N.A. (ISOFORM VINT).
RX TISSUE=Aortic smooth muscle;
RC MEDLINE=99327053; PubMed=10397680;
RA Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,

RA Wight T.N.;
 RT "Versican/PG-M isoforms in vascular smooth muscle cells.";
 RL Arterioscler. Thromb. Vasc. Biol. 19:1630-1639(1999).
 RN (a)
 RP PARTIAL SEQUENCE.
 RC TISSUE=Brain;
 RX MEDLINE=89174663; PubMed=2466833;
 RA Perides G., Lane W.S., Andrews D., Dahl D., Bignami A.;
 RT "Isolation and partial characterization of a glial
 RT hyaluronate-binding protein.";
 RL J. Biol. Chem. 264:5981-5987(1989).
 RN [9]
 RP TISSUE SPECIFICITY OF ISOFORMS.
 RX MEDLINE=96213482; PubMed=8627343;
 RA Paulus W., Baur I., Dours-Zimmermann M.T., Zimmermann D.R.;
 RT "Differential expression of versican isoforms in brain tumors.";
 RL J. Neuropathol. Exp. Neurol. 55:528-533(1996).
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS;
 CC Event-Alternative splicing; Named isoforms=5;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=PI3611-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=PI3611-2; Sequence=VSP_003082, VSP_003083;
 CC Name=V2;
 CC IsoId=PI3611-3; Sequence=VSP_003084;
 CC Name=V3;
 CC IsoId=PI3611-4; Sequence=VSP_003082, VSP_003085;
 CC Name=Vint;
 CC IsoId=PI3611-5; Sequence=VSP_003086;
 CC -!- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 is expressed
 CC in normal brain, gliomas, medulloblastomas, schwannomas,
 CC neurofibromas, and meningiomas; V2 is restricted to normal brain
 CC and gliomas; V3 is found in all these tissues except
 CC medulloblastomas.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC
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 CC
 CC -----
 CC EMBL; U16306; AAA65018.1; -;
 CC EMBL; X15998; CAA34128.1; -;
 CC EMBL; S52488; AAB24878.1; -;
 CC EMBL; U26555; AAB67565.1; -;
 CC EMBL; D32039; BAA06801.1; -;
 CC EMBL; J02814; AAA36437.1; -;
 CC EMBL; AF084545; AAD48545.1; -;
 CC PIR; S06014; A60979.
 CC HSP; P01132; 1EGF.
 CC Genew; HGNC:2464; CSFG2.
 CC MIM; 118661; -;
 CC GO; GO:0005578; C:extracellular matrix; TAS.
 CC GO; GO:0005540; F:hyaluronic acid binding; TAS.
 CC GO; GO:0008037; P:cell recognition; TAS.
 CC GO; GO:0007275; P:development; TAS.
 CC InterPro; IPR000152; Asx_hydroxyl_S.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF-like.
 DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR003599; IG.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF_2.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 1.
 DR Pfam; PF00193; xlink; 2.
 DR PRINTS; PR01265; LINKMODULE.
 DR ProDom; PD000918; Link; 2.
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 DR SMART; SM00034; CLEFT; 1.
 DR SMART; SM00179; EGF_Ca; 1.
 DR SMART; SM00409; IG_1.
 DR SMART; SM00445; Link; 2.
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 DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
 DR PROSITE; PS00041; C_TYPE_LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1-2.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF_3; 2.
 DR PROSITE; PS01187; EGF_Ca; 1.
 DR PROSITE; PS00835; IG-LIKE; 1.
 DR PROSITE; PS01241; Link; 2.
 KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
 KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
 KW Hyaluronic acid; Alternative splicing.
 FT SIGNAL 1 20
 FT CHAIN 21 3396
 FT DOMAIN 21 146
 FT DOMAIN 167 244
 FT DOMAIN 265 346
 FT DOMAIN 348 1335
 FT DOMAIN 1336 3089
 FT DOMAIN 3089 3129
 FT DOMAIN 3127 3163
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 FT DISULFID 3131 3142
 FT DISULFID 3136 3151
 FT DISULFID 3153 3162
 FT DISULFID 3169 3180
 FT DISULFID 3197 3289
 FT DISULFID 3265 3281
 FT DISULFID 3296 3339
 FT DISULFID 3325 3352
 FT CARBOHYD 57 57
 FT CARBOHYD 330 330
 FT CARBOHYD 615 615
 Query Match 15.6%; Score 174; DB 1; Length 3396;
 Best Local Similarity 28.5%; Pred No. 4.8e-07;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
 QY 17 QRPCKYVYFHTDTSRLNFEAKEACRRGGOLVSEDEQKLEKTEINLLPSDGF- 75
 Db 3177 GQCKYK--YF---AHRRTWDAERCRQLQGAHLTSLSHEEQMFYRV-----GHDYQ 3224
 QY 76 WGLRRREKQSNSTACODLYAWTDGSSIQFENWVDEP-----SCGSEVCVMVHOPSAP 131


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Db 3225 WIGL-----NDKMFHDFRWTGGSTLQVENRPNQPSFFSAGBDCVVIWHENG-- 3274
Oy 132 AGIGPYFQWDRNCNNKNNFKYIS-----DEKPAVPSREAGE 172
Db 3275 -----QWSDVPCNVHLTYTCKGKGVACGQPPVVENAKTFGK 3310

RESULT 11
PGCV_CHICK
ID_PGCV_CHICK STANDARD; PRT; 3562 AA.
AC Q09053; Q09045;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Vesican core protein precursor (large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M).
GN CPBG2.
Os Gallus gallus (Chicken).
Cc Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Cc Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
Cc Gallus.
Cc NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS V0 AND V1).
RC STRAIN=White leghorn; TISSUE=limb bud;
RX MEDLINE=93300846; PubMed=8314802;
RA Shinomura T., Nishida Y., Ito K., Kimata K.;
RT "cDNA cloning of PG-M, a large chondroitin sulfate proteoglycan
RT expressed during chondrogenesis in chick limb buds. Alternative
RT spliced multiforms of PG-M and their relationships to versican.";
RL J. Biol. Chem. 268:14461-14469(1993).
CC -!- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q09053-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=Q09053-2; Sequence=VSP_003093;
CC -!- TISSUE SPECIFICITY: Prechondrogenic condensation area of
CC developing limb buds.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
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CC
CC EMBL; X60226; CAA42787.1; -
CC EMBL; D13542; BAA02742.1; -
CC F01; A47171; A47171.
CC HSSP; P00740; 1EDM.
DR InterPro; IPR000152; Asx hydroxyl_s.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_Like.
DR InterPro; IPR007110; Ig-Like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
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DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; Ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX HYDROXYL; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 26
FT CHAIN 27 3562
FT DOMAIN 27 143
FT DOMAIN 166 243
FT DOMAIN 264 345
FT DOMAIN 3254 3290
FT DOMAIN 3292 3328
FT DOMAIN 3341 3455
FT DOMAIN 3460 3518
FT DISULFID 44 129
FT DISULFID 171 242
FT DISULFID 195 216
FT DISULFID 269 344
FT DISULFID 293 314
FT DISULFID 3258 3269
FT DISULFID 3263 3278
FT DISULFID 3280 3289
FT DISULFID 3296 3307
FT DISULFID 3301 3316
FT DISULFID 3318 3327
FT DISULFID 3334 3345
FT DISULFID 3362 3454
FT DISULFID 3430 3446
FT DISULFID 3461 3504
FT DISULFID 3490 3517
FT CARBOHYD 163 163
FT CARBOHYD 235 235
FT CARBOHYD 329 329
FT CARBOHYD 529 529
FT CARBOHYD 709 709
FT CARBOHYD 948 948
FT CARBOHYD 1409 1409
FT CARBOHYD 1479 1479
FT CARBOHYD 1523 1523
FT CARBOHYD 1530 1530
FT CARBOHYD 1625 1625
FT CARBOHYD 1751 1751
FT CARBOHYD 1988 1988
FT CARBOHYD 2088 2088
FT CARBOHYD 2089 2089
FT CARBOHYD 2507 2507
FT CARBOHYD 2642 2642
FT CARBOHYD 2679 2679
FT CARBOHYD 2748 2748
FT CARBOHYD 2762 2762
FT CARBOHYD 3069 3069
FT CARBOHYD 3194 3194
FT CARBOHYD 3232 3232
```

FT CARBOHYD 3545 3545 N-LINKED (GLCNAC...) (POTENTIAL).
 FT VARSPULIC 485 1411 Missing (in isoform V1).
 FT FTID=VSP 003093.
 SQ SEQUENCE 3562 AA; 388078 MW; 98C566E88C1602D2 CRC64;

Query Match 15.3%; Score 171; DB 1; Length 3562;
 Best Local Similarity 28.8%; Pred. No. 9.5e-07;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 17 QRCYKVIYFHTSRRLNFEAEKACRDGQGLVSISEDEQKLEKFTIENLLPSDGF- 75
 Db 3342 QGQCYK--YF---AHRWTDAERECRLOAGHLTSLSHSEQVFNRI-----GHYQ 3389
 QY 76 WIGLRREKQSNSTACQDIYAWTDSISQFRNYYVDEP-----SGSEVVCVVMYHQPAP 131
 Db 3390 WIGL-----NDRKFERDFRWTGSLQYENRPNQDPSFSGEDCVVIWHENG-- 3439
 QY 132 AGIGPYMFQWDDRCNMKNKNTCKYS---DEKPAVPSREAEGE 172
 Db 3440 -----QWNDVPCNYHLITCKGTACQGPVVENAKTFGK 3475

RESULT 12
 CD33 RAT
 ID CD93 RAT STANDARD; PRT; 643 AA.
 AC Q9ET61; Q9JIZ6;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Complement component C1q receptor precursor (Complement component 1, q subcomponent, receptor 1) (C1qRp) (C1qR(p)) (C1q/MBL/SPA receptor)
 DE (CD93 antigen) (Cell surface antigen AA4).
 GN CLOR1 OR CD93 OR C1ORP
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RN SEQUENCE FROM N.A.
 RC STRAIN=PVG; TISSUE=Natural killer cells;
 RX MEDLINE=20545218; PubMed=1093152;
 RA Lovik G., Vaage J.T., Dissen E., Szpirer C., Ryan J.C., Rolstad B.;
 RT "Characterization and molecular cloning of rat C1qRp, a receptor on NK cells.";
 RL Eur. J. Immunol. 30:3355-3362(2000).
 RN [2]
 RN SEQUENCE FROM N.A.
 RC STRAIN=Wistar; TISSUE=Lung;
 RX MEDLINE=20507883; PubMed=10934210;
 RA Dean Y.D., McGreal E.P., Akatsu H., Gasque P.;
 RT "Molecular and cellular properties of the rat AA4 antigen, a C-type lectin-like receptor with structural homology to thrombomodulin.";
 RL J. Biol. Chem. 275:34382-34392(2000).
 CC -!- FUNCTION: Receptor (or element of a larger receptor complex) for C1q, mannose-binding lectin (MBL2) and pulmonary surfactant protein A (SPA). May mediate the enhancement of phagocytosis in monocytes and macrophages upon interaction with soluble defense collagens. May play a role in intercellular adhesion.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- TISSUE SPECIFICITY: Widely expressed. Highly expressed in lung and heart. Expressed at lower level in brain, thymus, liver, spleen, intestine, kidney, adrenal gland, muscle and testis. Expressed on endothelial cells, platelets, undifferentiated monocytes and circulating natural killer cells.
 CC -!- PTM: N- and O-glycosylated (By similarity).
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 5 EGF-like domains.

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CC entities requires a license agreement (see http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
 CC -----
 CC DR EMBL; AF136537; AAG01572.1; -;
 DR HSSP; P35555; IEMN.
 DR GO; GO:0016021; C:integral to membrane; ISS.
 DR GO; GO:0004872; F:receptor activity; ISS.
 DR GO; GO:0016337; P:cell-cell adhesion; ISS.
 DR GO; GO:0042116; P:macrophage activation; ISS.
 DR GO; GO:0006909; P:phagocytosis; ISS.
 DR InterPro; IPR000152; Asx_hydroxyl_S.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF-like.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00008; EGF; 4.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT_1.
 DR SMART; SM00179; EGF_CA; 3.
 DR PROSITE; PS00010; ASX_HYDROXYL; 3.
 DR PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.
 DR PROSITE; PS00041; C_TYPE_LECTIN_2; 1.
 DR PROSITE; PS01186; EGF_2; 3.
 DR PROSITE; PS00026; EGF_3; 4.
 DR PROSITE; PS01187; EGF_CA; 3.
 DR Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
 KW EGF-like domain; Lectin; Glycoprotein.
 FT SIGNAL 1 23 POTENTIAL.
 FT CHAIN 24 643 COMPLEMENT COMPONENT C1Q RECEPTOR.
 FT DOMAIN 24 571 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 572 592 POTENTIAL.
 FT DOMAIN 593 643 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 31 173 C-TYPE LECTIN.
 FT DOMAIN 257 298 EGF-LIKE 1.
 FT DOMAIN 299 341 EGF-LIKE 2.
 FT DOMAIN 342 381 EGF-LIKE 3.
 FT DOMAIN 382 423 EGF-LIKE 4.
 FT DOMAIN 424 462 EGF-LIKE 5.
 FT DISULFID 261 272 BY SIMILARITY.
 FT DISULFID 268 282 BY SIMILARITY.
 FT DISULFID 284 297 BY SIMILARITY.
 FT DISULFID 303 314 BY SIMILARITY.
 FT DISULFID 308 325 BY SIMILARITY.
 FT DISULFID 327 340 BY SIMILARITY.
 FT DISULFID 346 355 BY SIMILARITY.
 FT DISULFID 351 364 BY SIMILARITY.
 FT DISULFID 366 380 BY SIMILARITY.
 FT DISULFID 386 397 BY SIMILARITY.
 FT DISULFID 393 406 BY SIMILARITY.
 FT DISULFID 408 422 BY SIMILARITY.
 FT DISULFID 428 437 BY SIMILARITY.
 FT DISULFID 433 446 BY SIMILARITY.
 FT DISULFID 448 461 BY SIMILARITY.
 FT CARBOHYD 322 322 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 498 498 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CONFLICT 417 417 E -> K (IN REF. 2).
 SQ SEQUENCE 643 AA; 68781 MW; 9AE4C933AD943DB6 CRC64;

Query Match 14.8%; Score 165; DB 1; Length 643;
 Best Local Similarity 25.2%; Pred. No. 3.9e-07;
 Matches 52; Conservative 35; Mismatches 73; Indels 46; Gaps 10;

QY 3 GRLLSQGP-----VCRGTQPCYKVIYFHTSRRLNFEAEKACRDGQGLVSISEDE 56
 Db 15 GQLWAGAAADSEAVWCEG---TACYTAHW-----GKLSAAEAQHRCNENGGLNATVKSEE 66
 QY 57 ECKLIEKFTENLL---PSD---GDFWGLRREKQSNSTACQDIYAWT-DGSLSQFRN 108
 Db 67 EARHVGELAAQLLKAPSETKIGFWGLQREKCKCTYHDLPMKGFWSVGGEITTSN 126
 QY 109 WY-VDEPSCGSEVVCVVMY-----HQPSPAGICGYPYMFQWDDRC-----NMKNKF 153
 Db 127 WYKASKSSCISKRCVSLIIDLSLKPHPSHLP-----KWHESPCTGTPDAPGNSIEGF 177

QY 154 ICKYSDKPAVPSREAGBETETTP 179
 DB 178 LCKNFKMGCSPLALGPGQLTTP 203

RESULT 13
 PGCA_BOVIN
 ID PGCA_BOVIN STANDARD; PRT; 2364 AA.
 AC P13608; E79117; Q28159;
 DT 01-JAN-1990 (Rel. 13, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core protein) (CSPCP).
 GN AGC1.
 OS Bos taurus (Bovine).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 CC Bovidae; Bovinae; Bos.
 CC NCBI_TaxID=9913;
 CC [1]
 RN SEQUENCE FROM N.A.
 RA Hexing T.M., Kollar J., Huynh T.D.;
 RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
 CC [2]
 RN SEQUENCE OF 563-1056 FROM N.A.
 RA MEDLINE=89380219; PubMed=2528543;
 RA Antonsson P., Heinegaard D., Oldberg A.;
 RT "The keratan sulfate-enriched region of bovine cartilage proteoglycan,
 RT consists of a consecutively repeated hexapeptide motif.";
 RL J. Biol. Chem. 264:16170-16173(1989).
 CC [3]
 RN SEQUENCE OF 1609-2113 AND 2151-2364 FROM N.A.
 RA MEDLINE=87270630; PubMed=3111460;
 RA Oldberg A., Antonsson P., Heinegaard D.;
 RT "The partial amino acid sequence of bovine cartilage proteoglycan,
 RT deduced from a cDNA clone, contains numerous Ser-Gly sequences
 RT arranged in homologous repeats.";
 RL Biochem. J. 243:255-259(1987).
 CC [4]
 RN SEQUENCE OF 2114-2150 FROM N.A.
 RA TISSUE=Cartilage;
 RX MEDLINE=93352525; PubMed=8349621;
 RA Fuelleop C., Walcz E., Vallyon M., Glant T.T.;
 RT "Expression of alternatively spliced epidermal growth factor-like
 RT domains in aggrecans of different species. Evidence for a novel
 RT module.";
 RL J. Biol. Chem. 268:17377-17383(1993).
 CC [5]
 RN PARTIAL SEQUENCE.
 RX MEDLINE=85027710; PubMed=6489519;
 RA Perin J.-P., Bonnet F., Jolles J., Jolles P.;
 RT "Sequence data concerning the protein core of the cartilage
 RT proteoglycan monomers. Characterization of a sequence allowing the
 RT synthesis of an oligonucleotide probe.";
 RL FEBS Lett. 176:37-42(1984).
 CC [6]
 RN PARTIAL SEQUENCE.
 RX MEDLINE=87005253; PubMed=3530809;
 RA Perin J.-P., Bonnet F., Jolles J.;
 RT "Structural relationship between link proteins and proteoglycan
 RT monomers.";
 RL FEBS Lett. 206:73-77(1986).
 CC -!- FUNCTION: This proteoglycan is a major component of extracellular
 CC matrix of cartilaginous tissues. A major function of this protein
 CC is to resist compression in cartilage. It binds avidly to
 CC hyaluronic acid via an amino-terminal globular region. May play a
 CC regulatory role in the matrix assembly of the cartilage.
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
 CC similarity).
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;

Name=1;
 IsoId=P13608-1; Sequence=Displayed;
 Name=2;
 IsoId=P13608-2; Sequence=VSP_003072;
 -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino
 terminus of the proteoglycan, while another globular region, G3,
 makes up the C-terminus. G1 contains link domains and thus
 consists of three disulfide-bonded loop structures designated as
 the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)
 and the chondroitin sulfate (CS) attachment domains lie between G2
 and G3.
 -!- PTM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND O-
 LINKED (ABOUT 40) OLIGOSACCHARIDES.
 -!- PTM: THE KERATAN SULFATE CONTENTS DIFFER CONSIDERABLY BETWEEN
 ADULT AND FETAL BOVINE PROTEOGLYCANS.
 -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 -!- SIMILARITY: Contains 4 link domains.
 -!- SIMILARITY: Contains 1 EGF-like domain.
 -!- SIMILARITY: Contains 1 C-type lectin family domain.
 -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.

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 or send an email to license@isb-sib.ch).

 EMBL; U76615; AAB38524.1; -
 EMBL; L07053; -; NOT_ANNOTATED_CDS.
 PIR; A34234; A39808.
 PIR; T42630; T42630.
 DR HSP; P08709; IBF9.
 DR InterPro; IPR002353; Asx_hydroxyl_s.
 DR InterPro; IPR000152; Asx_hydroxyl_s.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF_Like.
 DR InterPro; IPR007110; Ig_Like.
 DR InterPro; IPR003006; Ig_MHC.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR003324; SGXSG.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 Pfam; PF000008; EGF; 1.
 Pfam; PF00047; Ig; 1.
 Pfam; PF00059; lectin_c; 1.
 Pfam; PF02339; SGXSG; 61.
 Pfam; PF00084; sushi; 1.
 Pfam; PF00193; Xlink; 4.
 PRINTS; PR00356; ANTIFREEZEII.
 PRINTS; PR01265; LINKMODULE.
 ProDom; PD000918; Link; 4.
 SMART; SM00032; CCP; 1.
 SMART; SM00034; CLECT; 1.
 SMART; SM00179; EGF_CA; 1.
 SMART; SM00445; LINK; 4.
 PROSITE; PS00010; ASX_HYDROXYL; 1.
 PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 PROSITE; PS00022; EGF_1; 1.
 PROSITE; PS00026; EGF_3; 1.
 PROSITE; PS01187; EGF_CA; 1.
 PROSITE; PS50835; IG_LIKE; 1.
 PROSITE; PS00290; IG_MHC; FALSE_NEG.
 PROSITE; PS01241; LINK; 4.
 GlycoProfile; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
 Calcium; Alternative splicing; Repeat; Immunoglobulin domain.
 SIGNAL 1 16 POTENTIAL.
 CHAIN 17 2364 AGGRECAN CORE PROTEIN.
 DOMAIN 25 147 IG-LIKE V-TYPE.

DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR003324; SGXSG.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00047; Ig; 1.
DR Pfam; PF00059; Lactin_G; 1.
DR Pfam; PF02339; SGXSG; 71.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 4.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 4.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 4.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00411; C-TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00266; EGF_3; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS00290; IG_MHC; 1.
DR PROSITE; PS01241; LINK; 3.
DR Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
KW Alternative splicing; Repeat; Immunoglobulin domain.
FT SIGNAL 1 19
FT CHAIN 20 2415
FT DOMAIN 34 147
FT DOMAIN 170 247
FT DOMAIN 268 349
FT DOMAIN 495 572
FT DOMAIN 593 673
FT DOMAIN 2164 2199
FT DOMAIN 2201 2327
FT DOMAIN 2331 2389
FT DOMAIN 48 141
FT DOMAIN 152 247
FT DOMAIN 253 349
FT DOMAIN 477 571
FT DOMAIN 578 672
FT DOMAIN 676 848
FT DOMAIN 772 844
FT DOMAIN 851 1497
FT DOMAIN 941 1497
FT DOMAIN 1498 2162
FT DOMAIN 2163 2415
FT DISULFID 51 133
FT DISULFID 175 246
FT DISULFID 199 220
FT DISULFID 273 348
FT DISULFID 297 318
FT DISULFID 500 571
FT DISULFID 524 545
FT DISULFID 598 672
FT DISULFID 621 642
FT DISULFID 2168 2178
FT DISULFID 2173 2187
FT DISULFID 2189 2198
FT DISULFID 2215 2216
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FT DISULFID 2233 2325
FT DISULFID 2301 2317
FT DISULFID 2332 2337
FT DISULFID 2361 2388
FT DISULFID 126 126
FT CARBOHYD 239 239
FT CARBOHYD 333 333
FT CARBOHYD 387 387
FT CARBOHYD 434 434
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
Missing (in isoform 2 and isoform 3).
/FTid=VSP_003074.
Missing (in isoform 3).
/FTid=VSP_003075.
E -> A (IN REF. 4).
E -> V (IN REF. 4).
E -> A (IN REF. 2).
I -> V (IN REF. 2 AND 3).
P -> A (IN REF. 3).
A -> P (IN REF. 2 AND 3).
A -> P (IN REF. 2 AND 3).
Query Match 14.2%; Score 158.5; DB 1; Length 2415;
Best Local Similarity 29.1%; Pred. No. 7.8e-06;
Matches 52; Conservative 22; Mismatches 62; Indels 43; Gaps 11;
Oy 9 QPVCRGG---TORPCYKVIYFHTSRLNPFEEAKCRDGGOLVIESEDEOKLIEKFI 65
Db 2202 QEVCEGWNKYQGHYR--HFPD---RETWDARRCRQOQSHLSIVTPEEQ---EFV 2252
Oy 66 ENLLPSDGF-WIGLRRREKQSNSTACQDLYATWDGSIQFRNYYVDFPS---CGSEVC 121
Db 2253 NN---NAQDYQWIGL-----NDRTEGDFWSDGHPMQFENRPNQDNFFAAGDC 2301
Oy 122 VVM-YHOPSPAGIGGYPYFQWVNDRCNMKNFKYKYS-----DEKPAVPSREAGETE 175
Db 2302 VVMTWHEKG-----SWNDVPCNYHLPTCKRGTACGEPVPPVHEHARTFGKKD 2349
RESULT 15
PGCA_CANFA STANDARD; PRT; 2333 AA.
AC Q28343; Q28310;
DT 01-NOV-1997 (Rel. 35, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core protein) (CSPCP).
GN AGC1.
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OX NCBI_TaxID=9615;
RN [1]
RP SEQUENCE FROM N.A.
RA Glant T.T., Adams M.E., Kwok S.X.F., Huang D., Fueloep C.;
RT "Complete coding sequence and deduced amino acid sequence of aggrecan of canine cartilage."
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE OF 774-833 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=95128522; PubMed=7827755;
RA Barry F.P., Neame P.J., Sasse J., Pearson D.;
RT "Length variation in the keratan sulfate domain of mammalian aggrecan."
RL Matrix Biol. 14:323-328(1994).
RN [3]
RP SEQUENCE OF 1830-2333 FROM N.A.
RA Adams M.E., Kwok S.X.F., Huang D., Glant T.T., Fullop C.;
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE OF 2082-2118 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=93352525; PubMed=8349621;
RA Fueloep C., Walcz E., Vallyon M., Glant T.T.;
RT "Expression of alternatively spliced epidermal growth factor-like domains in aggrecans of different species. Evidence for a novel module."
RT module.";

J. Biol. Chem. 268:17377-17383(1993).
 CC -1- FUNCTION: This proteoglycan is a major component of extracellular matrix of cartilaginous tissues. A major function of this protein is to resist compression in cartilage. It binds avidly to hyaluronic acid via an amino-terminal globular region. May play a regulatory role in the matrix assembly of the cartilage.
 CC -1- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By similarity).
 CC -1- DOMAIN: Two globular domains, G1 and G2, comprise the amino terminus of the proteoglycan, while another globular region, G3, makes up the COOH terminus. G1 contains link domains and thus consists of three disulfide-bonded loop structures designated as the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS) and the chondroitin sulfate (CS) attachment domains lie between G2 and G3.
 CC -1- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate chains, N-linked and O-linked oligosaccharides (By similarity).
 CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -1- SIMILARITY: Contains 4 link domains.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -1- SIMILARITY: Contains 1 EGF-like domain.
 CC -1- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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 DR EMBL; U65989; AAB06238.2; -;
 DR EMBL; S74662; AAC60527.1; -;
 DR EMBL; L07054; -; NOT_ANNOTATED_CDS.
 DR PIR; I46998; I46998.
 DR HSSP; P08709; 1BF9.
 DR InterPro; IPR002353; Antifreeze1.
 DR InterPro; IPR000152; Asx_hydroxyl_S.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF-like.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003006; Ig_MHC.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR003324; SGXSG.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 1.
 DR Pfam; PF00047; ig; 1.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF02339; SGXSG; 66.
 DR Pfam; PF00084; sushi; 1.
 DR Pfam; PF00193; Xlink; 4.
 DR PRINTS; PR00356; ANTIFREEZE1.
 DR PRINTS; PR01265; LINKMODULE.
 DR ProDom; PD000918; Link; 4.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00445; LINK; 4.
 DR PROSITE; PS00010; ASX_HYDROXYL; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 1.
 DR PROSITE; PS00026; EGF_3; 1.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG_LIKE; 1.
 DR PROSITE; PS00290; IG_MHC; 1.
 DR PROSITE; PS01241; Link; 4.
 KW Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
 KW Repeat; Immunoglobulin domain
 FT SIGNAL 1 16 POTENTIAL.

FT CHAIN 17 2333
 FT DOMAIN 34 147
 FT DOMAIN 170 247
 FT DOMAIN 268 349
 FT DOMAIN 513 590
 FT DOMAIN 611 692
 FT DOMAIN 2081 2117
 FT DOMAIN 2130 2245
 FT DOMAIN 2249 2307
 FT DOMAIN 48 140
 FT DOMAIN 152 247
 FT DOMAIN 253 349
 FT DOMAIN 495 589
 FT DOMAIN 596 691
 FT DOMAIN 694 816
 FT DOMAIN 819 1394
 FT DOMAIN 1395 2079
 FT DOMAIN 2080 2333
 FT DISULFID 51 133
 FT DISULFID 175 246
 FT DISULFID 199 220
 FT DISULFID 273 348
 FT DISULFID 297 318
 FT DISULFID 518 589
 FT DISULFID 542 563
 FT DISULFID 616 691
 FT DISULFID 640 661
 FT DISULFID 2085 2096
 FT DISULFID 2090 2105
 FT DISULFID 2107 2116
 FT DISULFID 2123 2134
 FT DISULFID 2219 2235
 FT DISULFID 2151 2243
 FT DISULFID 2250 2293
 FT DISULFID 2279 2306
 FT CARBOHYD 126 126
 FT CARBOHYD 239 239
 FT CARBOHYD 333 333
 FT CARBOHYD 387 387
 FT CARBOHYD 444 444
 FT CARBOHYD 620 620
 FT CARBOHYD 676 676
 FT CARBOHYD 747 747
 SQ SEQUENCE 2333 AA; 240573 MW; 8B9ED78F3508B596 CRC64;
 Query Match 13.9%; Score 155.5; DB 1; Length 2333;
 Best Local Similarity 28.5%; Pred. No. 1.4e-05;
 Matches 51; Conservative 24; Mismatches 61; Indels 43; Gaps 11;
 QY 9 QPVCRCG---TQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSISEDEKLIKIEFI 65
 Db 2120 QELCEEGWTKFQGHCVYR--YFPD---RESWDAESRCRAQQSHLSIVTPEEQ----EFV 2170
 QY 66 ENLLPSDGDGF-WIGLRREKQSNSTACODLYAWTDGSIQFNRWVVDSPS---CGSEVC 121
 Db 2171 NN---NAQDYQWIGL-----NDTIEGDFNSDGHSLQFNWRPQPDNFFVSGEDC 2219
 QY 122 VVM-YHQPAPAGIGGYPYFQWNRDRCNNKNNFKYIS----DEKPAVPSRAEGEETE 175
 Db 2220 VVMWHEKG-----EWNDFVCNYLPFTCKGTACGDPFVVEHARTFQCKD 2267
 RESULT 16
 ID LEM2_MOUSE STANDARD; PRT; 612 AA.
 AC Q00690;
 DT 01-APR-1993 (Rel. 25, Created)
 DT 01-APR-1993 (Rel. 25, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE E-selectin precursor (Endothelial leukocyte adhesion molecule 1)
 DE (ELAM-1) (Leukocyte-endothelial cell adhesion molecule 2) (LECAM2).
 GN SELE OR ELAM-1.
 OS Mus musculus (Mouse).

CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92283265; Pubmed=1375914;
 RA Becker-Andre M., van Huijsduijn R.H., Losberger C., Whelan J.,
 RA Delamarter J.F.;
 RA "Murine endothelial leukocyte-adhesion molecule 1 is a close
 RT structural and functional homologue of the human protein.";
 RL Eur. J. Biochem. 206:401-411(1992).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92340571; Pubmed=1378846;
 RA Weller A., Isenmann S., Vestweber D.;
 RA "Cloning of the mouse endothelial selectins. Expression of both E-
 RT and P-selectin is inducible by tumor necrosis factor alpha.";
 RL J. Biol. Chem. 267:15176-15183(1992).
 CC -!- FUNCTION: Expressed on cytokine induced endothelial cells and
 CC mediates their binding to leukocytes. The ligand recognized by
 CC ELAM-1 is sialyl-Lewis X (alpha1-3)fucosylated derivatives of
 CC poly-lactosamine that are found at the nonreducing terminl of
 CC glycolipids).
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 EGF-like domain.
 CC -!- SIMILARITY: Contains 6 Sushi (SCR) domains.
 CC
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 CC or send an email to license@isb-sib.ch).
 CC
 DR EMBL; M80778; AAA37547.1; -;
 DR EMBL; M87862; AAA37577.1; ALT_INIT.
 DR PIR; S23174; B42755.
 DR HSSP; P16581; 1KJA.
 DR MGD; MGI:98278; Sele.
 DR InterPro; IPR006209; EGF like.
 DR InterPro; IPR006210; EGF.
 DR InterPro; IPR001304; Lectin C.
 DR InterPro; IPR002396; Selectin.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 1.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 6.
 DR PRINTS; PR00343; SELECTIN.
 DR SMART; SM00032; CCP; 6.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00181; EGF; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
 DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 1.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS50026; EGF_3; 1.
 KW Cell adhesion; transmembrane; Glycoprotein; EGF-like domain; Lectin;
 KW Selectin; Signal; Sushi; Repeat.
 FT SIGNAL 1 21
 FT CHAIN 22 612
 FT DOMAIN 22 557
 FT DOMAIN 558 579
 FT TRANSMEM 580 612
 FT DOMAIN 580 612
 FT DOMAIN 612 139
 FT DOMAIN 175
 FT DOMAIN 149
 FT DOMAIN 170
 FT DOMAIN 242
 FT DOMAIN 304
 FT DOMAIN 367
 FT DOMAIN 420
 FT DOMAIN 430

FT DOMAIN 493 549
 FT DISULFID 40 138
 FT DISULFID 111 130
 FT DISULFID 143 154
 FT DISULFID 148 163
 FT DISULFID 165 174
 FT DISULFID 180 225
 FT DISULFID 210 238
 FT DISULFID 243 287
 FT DISULFID 273 300
 FT DISULFID 305 350
 FT DISULFID 336 363
 FT DISULFID 368 413
 FT DISULFID 399 426
 FT DISULFID 431 476
 FT DISULFID 462 489
 FT DISULFID 494 535
 FT DISULFID 521 548
 FT CARBOHYD 25 25
 FT CARBOHYD 145 145
 FT CARBOHYD 192 192
 FT CARBOHYD 203 203
 FT CARBOHYD 266 266
 FT CARBOHYD 333 333
 FT CARBOHYD 391 391
 FT CARBOHYD 504 504
 FT CARBOHYD 528 528
 SQ SEQUENCE 612 AA; 66749 MW; 86F05713F0EC2C3D CRC64;
 Query Match 13.9%; Score 154.5; DB 1; Length 612;
 Best Local Similarity 27.9%; Pred. No. 3.3e-06;
 Matches 38; Conservative 28; Mismatches 45; Indels 25; Gaps 5;
 QY 25 YFHDTRRLNFEAEKACRRDGGQLVSISEDEQKLEKFIENLLPDSGDGFWIGLRREE 84
 DB 23 YNASSLMTYDEASAVCQDYTHLVAIQKEE---INVLNSLNKHSPPSYWIGIRK--- 76
 QY 85 KQSNSTACQDLYAWTDGS---ISQFRNWYVDPS---CGSEVCVVMHQPSAAGIGGPM 139
 DB 77 -----VNNVWTVWGTVGKPLTEEAQNAQNPNNKQNRNEDCVETIQTQKSGM----- 124
 QY 140 FQWNRDRCNMKNFIC 155
 DB 125 --WNDERCNKKLALC 138
 RESULT 17
 CD93 MOUSE
 ID_CD93_MOUSE STANDARD; PRT; 644 AA.
 AC O89103;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Complement component C1q receptor precursor (Complement component 1, q
 DE subcomponent, receptor 1) (ClqR) (ClqR(p)) (Clq/MBL/SPA receptor)
 DS (CD93 antigen) (Cell surface antigen AA4) (Lymphocyte antigen 68).
 GN C1QR1 OR CD93 OR C1QRP OR LY68 OR AA4.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX STRAIN=129/SV;
 RX MEDLINE=20528605; Pubmed=11074255;
 RA Kim T.S., Park M., Nepomuceno R.R., Palmarini G., Winokur S.,
 RA Cotman C.A., Bengtsson U., Tenner A.J.;
 RA "Characterization of the murine homolog of C1qR(P): identical cellular
 RT expression pattern, chromosomal location and functional activity of
 RT the human and murine C1qR(P).";
 RL Mol. Immunol. 37:377-389(2000).
 RN [2]
 RP SEQUENCE FROM N.A.

RC TISSUE=Leukemia;
RX MEDLINE=9930436; PubMed=10403644;
RA Petrenko O., Beavis A., Klaine M., Kittappa R., Godin I.,
RA Lemischka I.R.;
RT "The molecular characterization of the fetal stem cell marker AA4.";
RL Immunity 10:691-700(1999).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SV; TISSUE=Endothelial cells, and Spleen;
RX MEDLINE=99359842; PubMed=10430665;
RA Norsworthy P.J., Taylor P.R., Walport M.J., Botto M.;
RT "Cloning of the mouse homolog of the 126-kDa human C1q/MBL/SP-A
receptor, C1qR.";
RL Mamm. Genome 10:789-793(1999).
CC -1- FUNCTION: Receptor (or element of a larger receptor complex) for
C1q, mannose-binding lectin (MBL2) and pulmonary surfactant
protein A (SPA). May mediate the enhancement of phagocytosis in
monocytes and macrophages upon interaction with soluble defense
collagens. May play a role in intercellular adhesion. Marker for
early multipotent hematopoietic precursor cells. May play a role
in cell-cell interactions during hematopoietic and vascular
development.
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- TISSUE SPECIFICITY: Expressed in lung, heart and bone marrow.
CC Expressed at lower level in ovary, whole embryo and fetal liver.
CC Not detected in brain, adult liver or thymus. Highly expressed in
CC peritoneal cavity and bone marrow macrophages. Not detected in
CC epithelial cells.
CC -1- DEVELOPMENTAL STAGE: First detectable in day 9 embryos, in the
CC endocardium and vascular endothelium in the anterior part of the
CC embryo. Expression in endothelial cells, initially restricted to
CC aorta, omphalomesenteric and umbilical arteries, later extends to
CC subcardinal veins, interomitic arteries and perineural vessels.
CC On day 10, detectable in the entire embryo.
CC -1- PTM: N- and O-glycosylated (By similarity).
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -1- SIMILARITY: Contains 5 EGF-like domains.
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CC or send an email to license@isb-sib.ch).
DR EMBL; AF074856; AAC63274.1; -;
DR EMBL; AF081788; AAC62649.1; -;
DR EMBL; AF099939; AAD47906.1; -;
DR EMBL; AF099938; AAD47906.1; JOINED.
DR HSP; P35555; 1EMN.
DR MGD; MGI:106664; C1qrl.
DR GO; GO:0016023; C:cytoplasmic vesicle; IDA.
DR GO; GO:0016021; C:integral to membrane; ISS.
DR GO; GO:0005882; C:plasma membrane; IDA.
DR GO; GO:0004872; F:receptor activity; ISS.
DR GO; GO:0016337; P:cell-cell adhesion; ISS.
DR GO; GO:0042116; P:macrophage activation; ISS.
DR GO; GO:0006909; P:phagocytosis; ISS.
DR InterPro; IPR000152; Asx hydroxyl_S.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00008; EGF; 5.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 3.
DR PROSITE; PS00010; ASX_HYDROXYL; 3; FALSE_NEG.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS00441; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS01186; EGF_2; 3.
DR PROSITE; PS00026; EGF_3; 4.
DR PROSITE; PS01187; EGF_CA; 3.

KW Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
FT EGF-like domain; Lectin; Glycoprotein.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 644
FT DOMAIN 23 572
FT TRANSMEM 573 593
FT DOMAIN 594 644
FT DOMAIN 31 173
FT DOMAIN 257 298
FT DOMAIN 299 341
FT DOMAIN 342 381
FT DOMAIN 382 423
FT DOMAIN 424 465
FT DOMAIN 261 272
FT DISULFID 268 282
FT DISULFID 284 297
FT DISULFID 303 314
FT DISULFID 308 325
FT DISULFID 327 340
FT DISULFID 346 355
FT DISULFID 351 364
FT DISULFID 366 380
FT DISULFID 386 397
FT DISULFID 393 406
FT DISULFID 408 422
FT DISULFID 428 440
FT DISULFID 436 449
FT DISULFID 451 464
FT CARBOHYD 102 102
FT CARBOHYD 322 322
FT SEQUENCE 644 AA; 69354 MW; EE4351648BF8635A CRC64;
Query Match 13.8%; Score 153.5; DB 1; Length 644;
Best Local Similarity 24.1%; Pred. No. 4.3e-06;
Matches 51; Conservative 32; Mismatches 70; Indels 59; Gaps 11;
QY 6 LSGQP-----VCRGGTGPCKYKVIYFHDTSRRINFEEAKACRRDGGQLVSTES 54
DB 13 LLGQPWAGAAASQAVVCEG---TACYTAHW-----GKLSAAEAQRCNENGSLATVKS 64
QY 55 EDQKLIKFIENLLPSD-----GDFWIGLRREKQSNSTACDL---YANT-DGS 102
DB 65 EEEARHVQALTLTKAPLEAKYKFWIGLQ---EKGNTYHDLPMRGFSWVGGE 120
QY 103 ISQFRWY-VDFPSCSSEVCVVMY-----HQPAPAGIGGYMFQWMDRC----- 147
DB 121 DTAYSNWYKASKSCIFKRCVSLDLSLTTPHSLP-----KWHESPCTGPEAPG 171
QY 148 NMKNFICKYSDEKPAVPREAREGETELTTP 179
DB 172 NSIEGLCKFNPKMCRPLALGPGGRVYVTP 203
RESULT 18
PGCA RAT
ID PGCA RAT STANDARD; PRT; 2124 AA.
AC P07897;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core
protein) (CSPCP).
DE protein) (CSPCP).
GN AGC1 OR AGC.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
CX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=8087070; PubMed=3693370;
RA Doege K., Sasaki M., Horigan E., Hassell J.R., Yamada Y.;
RT "Complete primary structure of the rat cartilage proteoglycan core
protein deduced from cDNA clones.";

RL J. Biol. Chem. 262:17757-17767(1987).
 RN [2]
 RP REVISION TO 698.
 RA Doegi K., Sasaki M., Horigan E., Hassell J.R., Yamada Y.;
 RL J. Biol. Chem. 263:10040-10046(1988).
 RN [3]
 RP SEQUENCE OF 1856-2124 FROM N.A.
 RX MEDLINE=86250698; PubMed=2424893;
 RA "Partial cDNA sequence encoding a globular domain at the C terminus
 of the rat cartilage proteoglycan.";
 RL J. Biol. Chem. 261:8108-8111(1986).
 CC -!- FUNCTION: This proteoglycan is a major component of extracellular
 matrix of cartilaginous tissues. A major function of this protein
 is to resist compression in cartilage. It binds avidly to
 hyaluronic acid via an amino-terminal globular region. May play a
 regulatory role in the matrix assembly of the cartilage.
 CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
 similarity).
 CC -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino
 terminus of the proteoglycan, while another globular region, G3,
 makes up the COOH terminus. G1 contains link domains and thus
 consists of three disulfide-bonded loop structures designated as
 the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)
 and the chondroitin sulfate (CS) attachment domains lie between G2
 and G3.
 CC -!- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate
 chains, N-linked and O-linked oligosaccharides.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 4 link domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC
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 CC
 CC EMBL; M13518; AAA41836.1; -
 CC EMBL; J03485; AAA21000.1; ALT_SEQ.
 CC PIR; A92623; A28452.
 CC HSP; P98066; 1TSG.
 CC InterPro; IPR002353; Antifreeze2II.
 CC InterPro; IPR007110; IG-like.
 CC InterPro; IPR003006; IG_MHC.
 CC InterPro; IPR003596; IG_V.
 CC InterPro; IPR001304; Lectin_C.
 CC InterPro; IPR000538; Link.
 CC InterPro; IPR003324; SGXSG.
 CC InterPro; IPR000436; Sushi_SCR_CCP.
 CC Pfam; PF00047; IG; 1.
 CC Pfam; PF00059; lectin_c; 1.
 CC Pfam; PF02339; SGXSG; 55.
 CC Pfam; PF00084; sushi; 1.
 CC Pfam; PF00193; Xlink; 4.
 CC PRINTS; PR00356; ANTIFREEZE2II.
 CC PRINTS; PR01265; LINKMODULE.
 CC ProDom; PD000918; Link; 4.
 CC SMART; SM00032; CCP; 1.
 CC SMART; SM00034; CLECT; 1.
 CC SMART; SM00406; IG; 1.
 CC SMART; SM00445; LINK; 4.
 CC PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
 CC PROSITE; PS00041; C-TYPE_LECTIN_2; 1.
 CC PROSITE; PS50835; IG LIKE; 1.
 CC PROSITE; PS00290; IG_MHC; 1.
 CC PROSITE; PS01241; LINK; 4.
 CC Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; Repeat;

KW Immunoglobulin domain.
 FT SIGNAL 1 19
 FT CHAIN 20 2124
 FT DOMAIN 34 147
 FT DOMAIN 170 247
 FT DOMAIN 268 349
 FT DOMAIN 504 581
 FT DOMAIN 602 683
 FT DOMAIN 1910 2036
 FT DOMAIN 2040 2098
 FT DOMAIN 48 140
 FT DOMAIN 152 247
 FT DOMAIN 253 349
 FT DOMAIN 486 580
 FT DOMAIN 587 682
 FT DOMAIN 685 798
 FT DOMAIN 801 1226
 FT DOMAIN 1227 1909
 FT DOMAIN 1910 2124
 FT DISULFID 51 133
 FT DISULFID 175 246
 FT DISULFID 199 220
 FT DISULFID 273 348
 FT DISULFID 297 318
 FT DISULFID 509 580
 FT DISULFID 533 554
 FT DISULFID 607 682
 FT DISULFID 631 652
 FT DISULFID 1914 1925
 FT DISULFID 1942 2034
 FT DISULFID 2010 2026
 FT DISULFID 2041 2084
 FT DISULFID 2070 2097
 FT CARBOHYD 126 126
 FT CARBOHYD 239 239
 FT CARBOHYD 333 333
 FT CARBOHYD 387 387
 FT CARBOHYD 611 611
 FT CARBOHYD 667 667
 FT CARBOHYD 1842 1842
 SQ SEQUENCE 2124 AA; 221117 MW; E30BBE61593A34B1 CRC64;
 Query Match 13.8%; Score 153.5; DB 1; Length 2124;
 Best Local Similarity 26.3%; Pred. No. 1.9e-05;
 Matches 47; Conservative 27; Mismatches 62; Indels 43; Gaps 9;
 QY 9 QVCRGG---TQRPCKYVYFHTSRLNFEAKACRRDGGQIVLSIESDEQKLEKFI 65
 Db 1911 QEQCEGWTKFQGHCHYR--HFPP---RETWDAERRCREQQSHLSSIVTPEQEFVNKA 1965
 QY 66 ENLLPSDGF-WGLRREEEKQNSACQDLXATDGSISQFRNYYVDEP----SCGSEV 120
 Db 1966 Q-----DYQWIGL-----NDRTEGDFWSDGHSIQFEKWRPNQDNFFATGDC 2010
 QY 121 CVVMYHQPAPAGIGGPFYMFQWMDRCNMKNNFICKYS-----DEKPAVPSREAEGETE 175
 Db 2011 VVMVWHERG-----EMNDVPCNYQLPFTCKGTGACGPPPAVEHARTLGQKKD 2058
 RESULT 19
 ID_PGCB_BOVIN STANDARD; PRT; 912 AA.
 AC Q28062;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Brevican core protein precursor.
 GN BCAN.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
 OC Bovidae; Bos.
 OX NCBI_TaxID=9913;

RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
 RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
 RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,
 RA Coulson A., Coville G.J., Deaman R., Dhani P.D., Dunn M.,
 RA Ellington A.G., Griffiths J.A., Fraser A., French L., Garner P.,
 RA Grahm D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E.,
 RA Hammond S., Hartley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
 RA Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D.,
 RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,
 RA Leivaesalho M.H., Levensha M.A., Lloyd C., Lloyd D.M., Lovell J.D.,
 RA Marsh V.L., Martin S.L., McConachie L.J., McLay K., McMurray A.A.,
 RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T.,
 RA Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,
 RA Phillimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H.,
 RA Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Showkney R., Sims S.,
 RA Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E.,
 RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,
 RA Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M.,
 RA Whitehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A.,
 RA Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
 RA Rogers J.,
 RA "The DNA sequence and comparative analysis of human chromosome 20.",
 RA Nature 414:865-871(2001).
 RL [4]
 RL SEQUENCE FROM N.A.
 RP TISSUE=Leukocyte;
 RC MEDLINE=22386257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Uedin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
 RA Besak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalish D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
 RA "Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences.",
 RA Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RL [5]
 RP CHARACTERIZATION.
 RC MEDLINE=21990337; PubMed=11994479;
 RA McGreal E.P., Ikewaki N., Akatsu H., Morgan B.P., Gasque P.,
 RA "Human C1qR is identical with CD93 and the mni-11 antigen but does
 not bind C1q.",
 RA J. Immunol. 168:5222-5232(2002).
 RL [6]
 RP O-GLYCOSYLATION.
 RC MEDLINE=99192777; PubMed=10092817;
 RA Nepomuceno R.R., Ruiz S., Park M., Tenner A.J.,
 RA "C1qR is a heavily O-glycosylated cell surface protein involved in
 the regulation of phagocytic activity.",
 RA J. Immunol. 162:3583-3589(1999).
 RL [7]
 RP FUNCTION: Receptor (or element of a larger receptor complex) for
 C1q, mannose-binding lectin (MBL2) and pulmonary surfactant
 protein A (SPA). May mediate the enhancement of phagocytosis in
 monocytes and macrophages upon interaction with soluble defense
 collagens. May play a role in intercellular adhesion.
 CC [8]
 RP SUBCELLULAR LOCATION: Type I membrane protein.
 CC [9]
 RP TISSUE SPECIFICITY: Highly expressed in endothelial cells,
 platelets, cells of myeloid origin, such as monocytes and
 neutrophils. Not expressed in cells of lymphoid origin.
 CC [10]
 RP PTM: N- and O-glycosylated.
 CC [11]
 RP SIMILARITY: Contains 1 C-type lectin family domain.
 CC [12]
 RP SIMILARITY: Contains 5 EGF-like domains.

CC [13]
 RP CAUTION: Has been sometimes referred to as a collectin receptor.
 CC [14]
 RP CAUTION: According to Ref. 5, C1q is not a ligand for C1QR1.
 CC [15]
 RP DATABASE: NAME=PROW; NOTE=PROW 3.1-6(2001); /467246456_g.htm".
 CC [16]
 RP WWW="http://www.ncbi.nlm.nih.gov/prow/prowguide/467246456_g.htm".
 CC [17]
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 or send an email to license@isb-sib.ch).
 CC [18]
 RP EMBL; U94333; AAB53110.1; -;
 DR EMBL; AL118508; CAC00597.1; -;
 DR EMBL; BC028075; AAH28075.1; -;
 DR HSSP; P35555; IEMN.
 DR Genew; HGNC:15855; C1QR1.
 DR MIM; 120577; -;
 DR GO; GO:0016021; C: integral to membrane; IC.
 DR GO; GO:0004872; F: receptor activity; NAS.
 DR GO; GO:0046337; F: cell-cell adhesion; IDA.
 DR GO; GO:0042116; P: macrophage activation; NAS.
 DR GO; GO:0006909; P: phagocytosis; NAS.
 DR InterPro; IPR000152; ASX_hydroxyl_S.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF_Like.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00008; EGF; 5.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 3.
 DR PROSITE; PS00010; ASX_HYDROXYL; 3.
 DR PROSITE; PS00615; C-TYPE LECTIN 1; FALSE_NEG.
 DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
 DR PROSITE; PS01186; EGF_2; 3.
 DR PROSITE; PS50026; EGF_3; 3.
 DR PROSITE; PS01187; EGF_CA; 3.
 KW Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
 KW EGF-like domain; Lectin; Glycoprotein; Polymorphism.
 FT SIGNAL 1 21
 FT CHAIN 22 652 COMPLEMENT COMPONENT C1Q RECEPTOR.
 FT DOMAIN 24 580 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 581 601 POTENTIAL.
 FT DOMAIN 602 652 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 32 174 C-TYPE LECTIN.
 FT DOMAIN 260 301 EGF-LIKE 1.
 FT DOMAIN 302 344 EGF-LIKE 2.
 FT DOMAIN 345 384 EGF-LIKE 3. CALCIUM-BINDING (POTENTIAL).
 FT DOMAIN 385 426 EGF-LIKE 4. CALCIUM-BINDING (POTENTIAL).
 FT DOMAIN 427 468 EGF-LIKE 5. CALCIUM-BINDING (POTENTIAL).
 FT DOMAIN 594 601 POLY-DEU.
 FT DISULFID 264 275 BY SIMILARITY.
 FT DISULFID 271 285 BY SIMILARITY.
 FT DISULFID 287 300 BY SIMILARITY.
 FT DISULFID 306 317 BY SIMILARITY.
 FT DISULFID 311 328 BY SIMILARITY.
 FT DISULFID 330 343 BY SIMILARITY.
 FT DISULFID 349 358 BY SIMILARITY.
 FT DISULFID 354 367 BY SIMILARITY.
 FT DISULFID 369 383 BY SIMILARITY.
 FT DISULFID 386 409 BY SIMILARITY.
 FT DISULFID 399 425 BY SIMILARITY.
 FT DISULFID 431 443 BY SIMILARITY.
 FT DISULFID 439 452 BY SIMILARITY.
 FT DISULFID 454 467 BY SIMILARITY.
 FT CARBOHYD 325 335 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT VARIANT 318 318 V -> A.
 FT /FTID=VAR 013573.
 FT T -> V (IN REF. 1; AA SEQUENCE).
 FT C -> T (IN REF. 1; AA SEQUENCE).
 FT TA -> RI (IN REF. 1; AA SEQUENCE).
 FT CONFLICT 22 22
 FT CONFLICT 36 36
 FT CONFLICT 38 39

FT CONFLICT 155 155 S -> N (IN REF. 1).
 FT CONFLICT 186 186 G -> A (IN REF. 1; AA SEQUENCE).
 FT CONFLICT 492 492 S -> A (IN REF. 1; AA SEQUENCE).
 FT CONFLICT 496 496 R -> Q (IN REF. 1; AA SEQUENCE).
 FT CONFLICT 504 504 R -> G (IN REF. 1; AA SEQUENCE).
 FT CONFLICT 541 541 P -> S (IN REF. 1).
 SQ SEQUENCE 652 AA; BECA0FAC55FCAC2 CRC64;
 Query Match 13.6%; Score 151.5; DB 1; Length 652;
 Best Local Similarity 24.4%; Pred. No. 6.6e-06;
 Matches 50; Conservative 38; Mismatches 74; Indels 43; Gaps 9;
 QY 5 LLSGQP-----VCGGTQRCYKVIYFHDTSRLNFEAEACRRDGGQVLVSIE 53
 Db 13 LLTQPGAGTGADTEAWCVG---TACYTA-----HSGKLSAAEQNHQNGNLAIVK 64
 QY 54 SEDEQKLIKFIENLLPSD-----GDFWIGLRREKOSNSTACQDLYAWT-DGSISQ 105
 Db 65 SKEEAHVQVLAQLLRREALTARMSKFWIGLQREKGLDPSLPKGFVWGGEDTP 124
 QY 106 FRWYVD-BPSCSEVGVV---YHQPAPAGIGGYFQWDDRCNMKN-----FI 154
 Db 125 YSNWHELRNSCIKRCVSLLDLSQPLPSRLP-----KWSEGPCSPGSGNIEGFV 179
 QY 155 KYSDEKPAVPSREASGEETLTP 179
 Db 180 CRFSKMCRLALGGPGQVYTP 204

RESULT 21
 CLEI HUMAN
 ID CLEI HUMAN STANDARD; PRT; 197 AA.
 AC 075556;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE C-type lectin superfamily member 1 precursor (Cartilage-derived C-type lectin).
 GN CLECSF1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Cartilage;
 RX MEDLINE=99453719; PubMed=10524194;
 RA Neame P.J., Tapp H., Grimm D.R.;
 RT "The cartilage-derived, C-type lectin (CLECSF1): structure of the gene and chromosomal location."
 RL Biochim. Biophys. Acta 1446:193-202 (1999).
 CC -!- TISSUE SPECIFICITY: Restricted to cartilage.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
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 CC -----
 DR EMBL; AF077345; AAD12542.1; -.
 DR EMBL; AF077344; AAD12542.1; JOINED.
 DR HSSP; P05452; 1HTN.
 DR Genew; HGNC:2052; CLECSF1.
 DR GO; GO:0005530; F:lectin; TAS.
 DR GO; GO:0001501; P:skeletal development; TAS.
 DR InterPro; IPR001304; LECTIN_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.

KW Lectin; Signal. 1 22
 FT SIGNAL 23 197 POTENTIAL.
 FT CHAIN 74 192 C-TYPE LECTIN SUPERFAMILY MEMBER 1.
 FT DQAIN 68 192 C-TYPE LECTIN.
 FT DISULFD 68 78 BY SIMILARITY.
 FT DISULFD 95 191 BY SIMILARITY.
 FT DISULFD 167 183 BY SIMILARITY.
 SQ SEQUENCE 197 AA; BB924DBDB7729A4 CRC64;
 Query Match 13.5%; Score 151; DB 1; Length 197;
 Best Local Similarity 25.0%; Pred. No. 1.7e-06;
 Matches 38; Conservative 26; Mismatches 64; Indels 24; Gaps 4;
 QY 9 QPVCRCGGTQ--RPGYKVIYFHDTSRLNFEAEACRRDGGQVLVSIESEDEQKLIKFI 66
 Db 65 QTVCLRGTKVHKCYLA-----SEGLKHFHEANEDCISKGLIVIPNSDEINALQDYK 119
 QY 67 NLLPSDDGDFWIGLRREKOSNSTACQDLYAWTDCGISQFRWYVDEPSCGSEVGVVWH 126
 Db 120 RSLPGVNDVFLGI-----NDMTGKFDVYNGIAISFLNWDRAQPNNGKRENCVLS 171
 QY 127 QPSAPAGIGGYFQWDDRCNMKNFICKYS 158
 Db 172 QSA-----QKWSDEACRSKRYICEFT 194

RESULT 22
 FCE2 HUMAN
 ID FCE2 HUMAN STANDARD; PRT; 321 AA.
 AC P06734;
 DT 01-JAN-1988 (Rel. 06, Created)
 DT 01-JAN-1988 (Rel. 06, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Low affinity immunoglobulin epsilon FC receptor (Lymphocyte IgE receptor) (FC-epsilon-R1) (CD23) (BLAST-2) (Immunoglobulin E-binding factor).
 DE factor).
 GN FCER2 OR IGBEF.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=87118255; PubMed=2949326;
 RA Ikuta K., Takami M., Kim C.W., Honjo T., Miyoshi T., Tagaya Y., Kawabe T., Yodoi J.;
 RT "Human lymphocyte Fc receptor for IgE: sequence homology of its cloned cDNA with animal lectins."
 RL Proc. Natl. Acad. Sci. U.S.A. 84:819-823 (1987).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=87051737; PubMed=2877743;
 RA Kikutani H., Inui S., Sato R., Barsumian E.L., Owaki H., Yamasaki K., Kaisho T., Uchibayashi N., Hardy R.R., Hirano T., Teunasa S., Sakiyama F., Suemura M., Kishimoto T.;
 RT "Molecular structure of human lymphocyte receptor for immunoglobulin E."
 RL Cell 47:657-665 (1986).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=87218454; PubMed=3034567;
 RA Luedin C., Hofstetter H., Sarfati M., Levy C.A., Suter U., Alaimo D., Kilchherr E., Frost H., Delespesse G.;
 RT "Cloning and expression of the cDNA coding for a human lymphocyte IgE receptor."
 RL EMBO J. 6:109-114 (1987).
 RN [4]
 RP PARTIAL SEQUENCE, AND DISULFIDE BONDS.
 RX MEDLINE=93038513; PubMed=1417742;
 RA Rose K., Turcatti G., Graber P., Pochon S., Regamey P.-O., Jansen K.U., Magnenat E., Aubonne N., Bonnefoy J.-Y.;
 RT "Partial characterization of natural and recombinant human soluble CD23."

FT	CHAIN	1	321	MEMBRANE BOUND FORM.
FT	CHAIN	150	321	SOLUBLE FORM.
FT	DOMAIN	1	21	CYTOPLASMIC (POTENTIAL).
FT	TRANSMEM	22	47	SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN) (POTENTIAL).
FT	FT			EXTRACELLULAR (POTENTIAL).
FT	DOMAIN	48	321	C-TYPE LECTIN (LONG FORM).
FT	DOMAIN	162	284	CLEAVAGE.
FT	SITE	149	150	
FT	REPEAT	69	89	
FT	REPEAT	90	110	
FT	REPEAT	111	131	
FT	DISULFID	160	288	BY SIMILARITY.
FT	DISULFID	163	174	BY SIMILARITY.
FT	DISULFID	191	282	
FT	DISULFID	259	273	
FT	CARBOHYD	63	63	
FT	VARSPLIC	1	7	
FT	FT			N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CONFLICT	269	269	MEGQYS -> MNPPSQ (in isoform B).
FT	STRAND	174	177	/FTID=VSP 003057.
FT	HELIX	184	193	N -> T (IN REF. 3).
FT	TURN	194	195	
FT	STRAND	197	198	
FT	HELIX	204	214	
FT	TURN	215	216	
FT	STRAND	219	228	
FT	TURN	229	230	
FT	STRAND	231	234	
FT	TURN	235	236	
FT	STRAND	239	239	
FT	STRAND	245	245	
FT	TURN	247	248	
FT	TURN	254	255	
FT	STRAND	259	262	
FT	TURN	264	265	
FT	STRAND	268	271	
FT	TURN	273	274	
FT	STRAND	281	284	
SQ	SEQUENCE	321 AA;	36468 MW; F86708C0E6515B87 CRC64;	

Query Match	13.4%;	Score 149;	DB 1;	Length 321;
Best Local Similarity	30.2%;	Pred. No. 4.6e-06;		
Matches 55;	Conservative 20;	Mismatches 57;	Indels 50;	Gaps 11;

QY	17	QRPCYKVIYPHDTSRRLNFFBEAKEACRRDGGQLVSIHSEDEQKLIKFIENLLPSDGF	76
Db	171	QRKCY---YFGKTKQ--WVHAYACDDMEGQLVSIHSPPEQDFTLKH-----ASHTGSW	220
QY	77	IGLRREEKOSNSTACODLYAWDTGSIQFKNWYVDEPSCGS--EVCVMVHQISAPAGI	134
Db	221	IGLRNLDLKE-----FIWVGSHVDYSNWAPGEFTSRSQGEDCVMW-----RGS	265
QY	135	GGPYMFOWNDRCNMK--NPFICKYSDEKPAV---PSREARGE-----ETELTPV	180
Db	266	G-----RWNDAFCDRKLGAVC-----DLATCTPPASEGSAESMGPSRPPDGRLP	316
QY	181	LP 182	
Db	317	AP 318	

RESULT 23			
PGCA MOUSE			
ID	PGCA MOUSE	STANDARD;	PRT; 2132 AA.
AC	Q61282; Q64021;		
DT	01-NOV-1997 (Rel. 35, Created)		
DT	01-NOV-1997 (Rel. 35, Last sequence update)		
DT	15-MAR-2004 (Rel. 43, Last annotation update)		
DE	Aggrecan core protein precursor (Cartilage-specific proteoglycan core protein) (CSPCP).		
DE	AGC1 OR AGC.		
OS	Mus musculus (Mouse).		
OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		

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Query Match      13.3%; Score 148.5; DB 1; Length 2132;
Best Local Similarity 24.7%; Pred. No. 5.3e-05;
Matches 46; Conservative 30; Mismatches 67; Indels 43; Gaps 9;

2  TGRLLSGQPVCRG--TQPCVKYVYHDTSRRLNPFEEAKCRDGGQGVSVIESDEQ 58
      :::::
1912 TESTVADOCCEGWTKFGCHYCR--HPED---RETVDARRCROOSHLSIVTPEEO 1956

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QY 59 KLIKFIENLLPSDGF-WIGLRREKQSNSTACQDIYAMTDGSIQFRWYVDEP--- 114
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1967 EFVKNQAQ-----DYWGIGL-----NDRTEGDFRWSGDGHSIQFKWRNQPDNF 2011
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 115 -SCGSEVCVVMYHQSPAGIGGPMFQWDDRCNMKNFICKY-----DEKPAVPBREA 169
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 2012 FATGSDCVMTWHERG-----EWNDVPCNYQLPFTCKRGTVACGSDPPVVEHART 2060
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 170 EGEETE 175
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 2061 LGQKXD 2066

RESULT 24
PGCB_MOUSE
ID_PGCB_MOUSE STANDARD; PRT; 883 AA.
AC Q61351.
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Brevican core protein precursor.
GN BCAN.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALE/c; TISSUE=Brain;
RX MEDLINE=97432816; PubMed=9286696;
RA Rauch U., Meyer H., Brakebusch C., Seidenbecher C., Gundelfinger E.D.,
RA Beller D.R., Fassler R.;
RT "Sequence and chromosomal localization of the mouse brevican gene.";
RL Genomics 44:15-21(1997).
CC -!- FUNCTION: May play a role in the terminally differentiating and
CC the adult nervous system during postnatal development. Could
CC stabilize interactions between HA and brain proteoglycans.
CC -!- SUBCELLULAR LOCATION: Secreted, extracellular matrix (By
CC similarity).
CC -!- TISSUE SPECIFICITY: Brain (By similarity).
CC -!- PTM: Contains mostly chondroitin sulfate (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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DR EMBL; X87096; CAB60575.1; -.
DR PIR; S57653; S57653.
DR HSP; P20693; IHLJ.
DR MGD; MGI:1096385; Bcan.
DR InterPro; IPR002353; Antifreeze2.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; Ig_v.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF_1.
DR Pfam; PF00047; Ig; 1.

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DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; xlink; 2.
DR PRINTS; PR00356; ANTIFREEZE11.
DR PRINTS; PR01265; LINKMODULE.
DR PRODOM; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00406; IGV; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 1.
DR PROSITE; PS50835; IG-LIKE; 1.
DR PROSITE; PS00290; IG_MHC; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Hyaluronic acid; Proteoglycan; Lectin; Signal; Sushi;
KW EGF-like domain; Repeat; Immunoglobulin domain.
FT SIGNAL 1 22
FT CHAIN 23 883
FT DOMAIN 35 154 IG-LIKE V-TYPE.
FT DOMAIN 173 250 LINK 1.
FT DOMAIN 271 352 LINK 2.
FT DOMAIN 622 658 EGF-LIKE.
FT DOMAIN 658 786 C-TYPE LECTIN.
FT DOMAIN 787 851 SUSHI.
FT DISULFID 56 136 BY SIMILARITY.
FT DISULFID 178 249 BY SIMILARITY.
FT DISULFID 202 223 BY SIMILARITY.
FT DISULFID 276 351 BY SIMILARITY.
FT DISULFID 300 321 BY SIMILARITY.
FT DISULFID 626 637 BY SIMILARITY.
FT DISULFID 631 646 BY SIMILARITY.
FT DISULFID 648 657 BY SIMILARITY.
FT DISULFID 664 675 BY SIMILARITY.
FT DISULFID 692 784 BY SIMILARITY.
FT DISULFID 760 776 BY SIMILARITY.
FT DISULFID 791 834 BY SIMILARITY.
FT DISULFID 820 847 BY SIMILARITY.
FT CARBOHYD 129 129 N-LINKED (GLCNAC...) (POTENTIAL).
FT CARBOHYD 336 336 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 883 AA; CC2C33C97B453B45 CRC64;
Query Match 13.2%; Score 147; DB 1; Length 883;
Best Local Similarity 29.7%; Pred. No. 2.4e-05;
Matches 43; Conservative 21; Mismatches 45; Indels 36; Gaps 8;
QY 17 QRCYKVIYPHDTSRRINFEAEKACRRDGGQGVLSIESEDEQKLI-EKFIENLLPSDGF 75
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 672 QGACYK---HFSTRR-SWEEAESQCRALGAHLTSICTPEQDFVNDRYEYQ----- 719
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 76 WIGLRREKQSNSTACQDIYAMTDGSIQFRWYVDEP---CGSEVCVVM-YHQSPAP 131
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 720 WIGL-----NDRTEGDFLMSDGAFLLYENWNPQDPDSYFLSGENCVVMVWHDQG-- 769
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 132 AGIGGPMYFQWDDRCNMKNFICK 156
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 770 -----QMSDVPCNYHLSYTK 785
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 25
PGCA_CHICK
ID_PGCA_CHICK STANDARD; PRT; 2109 AA.
AC P07638; Q90810; Q90820; Q90951; Q91047;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core
DE protein) (CSPCP).
GN AGC1.

```

OS Gallus gallus (Chicken).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 CC Gallus.
 CC NCBI_TaxID=9031;
 CC [1]_TaxID=9031;
 CC SEQUENCE FROM N.A.
 CC STRAIN=White leghorn; TISSUE=Embryo;
 CC MEDLINE=94043149; PubMed=8226878;
 CC Li H., Schwartz N.B., Vertel B.M.;
 CC "CDNA cloning of chick cartilage chondroitin sulfate (aggrecan) core
 CC protein and identification of a stop codon in the aggrecan gene
 CC associated with the chondrodysostrophy, nanomelia.";
 CC J. Biol. Chem. 268:23504-23511(1993).
 CC [2]
 CC SEQUENCE OF 1042-1559 FROM N.A.
 CC TISSUE=Embryo;
 CC MEDLINE=90307744; PubMed=1694853;
 CC Krueger R.C. Jr., Fields T.A., Mensch J.R. Jr., Schwartz N.B.;
 CC "Chick cartilage chondroitin sulfate proteoglycan core protein. II.
 CC Nucleotide sequence of cDNA clone and localization of the S103L
 CC epitope.";
 CC J. Biol. Chem. 265:12088-12097(1990).
 CC [3]
 CC SEQUENCE OF 1-1855 AND 1893-2109 FROM N.A.
 CC TISSUE=Cartilage;
 CC MEDLINE=93111968; PubMed=1339285;
 CC Chandrasekaran L., Tanzer M.L.;
 CC "Molecular cloning of chicken aggrecan. Structural analyses.";
 CC Biochem. J. 288:903-910(1992).
 CC [4]
 CC ERRATUM.
 CC MEDLINE=94107258; PubMed=8280087;
 CC Chandrasekaran L., Tanzer M.L.;
 CC Biochem. J. 296:885-887(1993).
 CC [5]
 CC SEQUENCE OF 1492-1610 FROM N.A.
 CC STRAIN=White leghorn; TISSUE=Chondrocytes;
 CC MEDLINE=95128519; PubMed=7827752;
 CC Primorac D., Stover M.L., Clark S.H., Rowe D.W.;
 CC "Molecular basis of nanomelia, a heritable chondrodysostrophy of
 CC chicken.";
 CC Matrix Biol. 14:297-305(1994).
 CC [6]
 CC SEQUENCE OF 1894-2109 FROM N.A.
 CC MEDLINE=89008500; PubMed=3170613;
 CC Tanaka T., Har-El R., Tanzer M.L.;
 CC "Partial structure of the gene for chicken cartilage proteoglycan
 CC core protein.";
 CC J. Biol. Chem. 263:15831-15835(1988).
 CC [7]
 CC SEQUENCE OF 1693-1855 AND 1893-2109 FROM N.A.
 CC MEDLINE=86259736; PubMed=3450092;
 CC Sai S., Tanaka T., Koshier R.A., Tanzer M.L.;
 CC "Cloning and sequence analysis of a partial cDNA for chicken
 CC cartilage proteoglycan core protein.";
 CC Proc. Natl. Acad. Sci. U.S.A. 83:5081-5085(1986).
 CC -!- FUNCTION: This proteoglycan is a major component of extracellular
 CC matrix of cartilaginous tissues. A major function of this protein
 CC is to resist compression in cartilage. It binds avidly to
 CC hyaluronic acid via an amino-terminal globular region. May play a
 CC regulatory role in the matrix assembly of the cartilage.
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
 CC similarity).
 CC Event=Alternative products:
 CC Name=1;
 CC IsoId=P07898-1; Sequence=Displayed;
 CC Name=2;
 CC IsoId=P07898-2; Sequence=VSP_003073;
 CC -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino
 CC terminus of the proteoglycan, while another globular region, G3,
 CC makes up the COOH terminus. G1 contains link domains and thus

consists of three disulfide-bonded loop structures designated as
 the A, B, C motifs. G2 is similar to G1. The keratan sulfate (KS)
 and the chondroitin sulfate (CS) attachment domains lie between G2
 and G3.
 -!- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate
 chains, N-linked and O-linked oligosaccharides.
 -!- DISEASE: DEFECTS IN AGC1 ARE THE CAUSE OF NANOMELIA, A LETHAL
 CONNECTIVE TISSUE DISORDER AFFECTING CARTILAGE DEVELOPMENT
 (CHONDRODYSOSTROPHY) CHARACTERIZED BY SHORTENED AND MALFORMED LIMBS.
 AGGREGAN IS TRUNCATED AT ITS C-TERMINAL IN THE CS-2 BINDING DOMAIN
 AND IS NOT ANYMORE SECRETED FROM THE CHONDROCYTES.
 -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 -!- SIMILARITY: Contains 4 link domains.
 -!- SIMILARITY: Contains 1 EGF-like domain.
 -!- SIMILARITY: Contains 1 C-type lectin family domain.
 -!- SIMILARITY: Contains 1 Sushi (SCR) domain.

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 or send an email to license@isb-sib.ch).

 EMBL; L21913; AAB19128.1; -;
 EMBL; M38187; AAA48731.1; -;
 EMBL; M88101; -; NOT ANNOTATED_CDS.
 EMBL; S74657; AAC60751.1; -;
 EMBL; S74656; AAC60751.1; JOINED.
 EMBL; J04028; AAA48719.1; -;
 EMBL; M13993; AAA48720.1; -;
 PIR; I50421; I50421.
 HSP; P08709; IBF9.
 InterPro; IPR002353; AntifreezeZell.
 InterPro; IPR000152; Asx_hydroxyl_S.
 InterPro; IPR000742; EGF_2.
 InterPro; IPR001881; EGF_Ca.
 InterPro; IPR006209; EGF_like.
 InterPro; IPR007110; Ig-like.
 InterPro; IPR003593; Ig.
 InterPro; IPR001304; Lectin_C.
 InterPro; IPR000538; Link.
 InterPro; IPR003324; SGXXSG.
 InterPro; IPR000436; Sushi_SCR_CCP.
 Pfam; PF00008; EGF; 1.
 Pfam; PF00047; ig; 1.
 Pfam; PF00059; lectin_c; 1.
 Pfam; PF02339; SGXXSG; 56.
 Pfam; PF00084; sushi; 1.
 Pfam; PF00193; xlink; 4.
 PRINTS; PR00356; ANTIFREEZEII.
 PRINTS; PR01265; LINKMODULE.
 ProDom; PD000918; Link; 4.
 SMART; SM00032; CCP; 1.
 SMART; SM00034; CLECT; 1.
 SMART; SM00179; EGF_CA; 1.
 SMART; SM00409; IG; 1.
 SMART; SM00445; LINK; 4.
 PROSITE; PS00010; ASX_HYDROXYL; 1.
 PROSITE; PS00615; C-TYPE LECTIN_1; 1.
 PROSITE; PS50041; C-TYPE LECTIN_2; 1.
 PROSITE; PS00022; EGF_1; 1.
 PROSITE; PS50026; EGF_3; 1.
 PROSITE; PS01187; EGF_CA; 1.
 PROSITE; PS50835; IG LIKE; 1.
 PROSITE; PS01241; LINK; 4.
 PROSITE; PS01241; LINK; 4.
 Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
 Alternative splicing; Repeat; Immunoglobulin domain.
 SIGNAL 1 16
 CHAIN 17 2109 AGGREGAN CORE PROTEIN.
 DOMAIN 34 143 IG-LIKE V-TYPE.


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FT DOMAIN 166 243 LINK 1.
FT DOMAIN 264 346 LINK 2.
FT DOMAIN 537 614 LINK 3.
FT DOMAIN 635 716 LINK 4.
FT DOMAIN 1363 1742 19 X 20 AA TANDEM-REPEAT.
FT DOMAIN 1855 1892 EGF-LIKE.
FT DOMAIN 1901 2019 C-TYPE LECTIN.
FT DOMAIN 2023 2081 SUSHI.
FT DOMAIN 48 137 GI-A.
FT DOMAIN 148 243 GI-B.
FT DOMAIN 249 346 GI-B'.
FT DOMAIN 519 613 G2-B.
FT DOMAIN 620 715 G2-B'.
FT DOMAIN 718 803 KS.
FT DOMAIN 805 1264 CS-1.
FT DOMAIN 1285 1742 CS-2.
FT DOMAIN 1893 2109 G3.
FT DISULFID 51 129 BY SIMILARITY.
FT DISULFID 171 242 BY SIMILARITY.
FT DISULFID 195 216 BY SIMILARITY.
FT DISULFID 269 345 BY SIMILARITY.
FT DISULFID 293 314 BY SIMILARITY.
FT DISULFID 542 613 BY SIMILARITY.
FT DISULFID 566 587 BY SIMILARITY.
FT DISULFID 640 715 BY SIMILARITY.
FT DISULFID 664 685 BY SIMILARITY.
FT DISULFID 1859 1870 BY SIMILARITY.
FT DISULFID 1864 1879 BY SIMILARITY.
FT DISULFID 1881 1890 BY SIMILARITY.
FT DISULFID 1897 1908 BY SIMILARITY.
FT DISULFID 1925 2017 BY SIMILARITY.
FT DISULFID 2024 2067 BY SIMILARITY.
FT DISULFID 2053 2080 BY SIMILARITY.
FT CARBOHYD 76 76 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 122 122 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 330 330 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 388 388 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 439 439 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 644 644 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 700 700 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 765 765 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 801 801 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARSPLIC 1856 1892 Missing (in isoform 2).
FT CONFLICT 362 362 /FTID=VSP 003073.
E -> D (IN REF. 3).

Query Match 13.1%; Score 146; DB 1; Length 2109;
Best Local Similarity 25.0%; Pred No. 8.7e-05;
Matches 42; Conservative 28; Mismatches 58; Indels 40; Gaps 8;

QY 17 QPCYKVIYFHDTSRLNFEFEAKACRRDGGOLVSEDEQKLEKFIENLLPSDGF- 75
Db 1905 QGCHYR--HFEE---RETWDAESRCRQHAHLSIITPEEQEFVNSHAQ-----DYQ 1952

QY 76 WIGLRREEKQNSTACQDLYATDGSISQFNWYVDPS-----CGSEVCVVMVHQSAP 131
Db 1953 WIGLSDR-----AVENDFRWSGSHLSQFNWRPNQDNFFAFGEDCVVMWHEQG-- 2002

QY 132 AGTGGPYMPQWDRDRCKNNKNTCKYS----DEKPAVPSREAEGBETE 175
Db 2003 -----EWNDVPCNVHLPTCKKGTVACGDPVWENARTFGKRD 2041

RESULT 26
LECG TRIST
ID LECG TRIST STANDARD; PRT; 158 AA.
AC Q9YGF1
DT 30-MAY-2000 (Rel. 39, Created)
DT 10-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Galactose-binding lectin precursor (TSL).
OS Trimeresurus stejnegeri (Chinese green tree viper).
```

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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Trimeresurus.
OX NCBI_TaxID=39682;
RN SEQUENCE FROM N.A., SEQUENCE OF 24-53, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RA MEDLINE=99348038; PubMed=10417338;
RX Xu Q., Wu X.-F., Xia Q.-C., Wang K.-Y.;
RT "Cloning of a Galactose-binding lectin from the venom of Trimeresurus
RL stejnegeri.";
RN Biochem. J. 341:733-737(1999).
RC TISSUE=Venom;
RX PubMed=10561575;
RA Zeng R., Xu Q., Shao X.-X., Wang K.-Y., Xia Q.-C.;
RT "Characterization and analysis of a novel glycoprotein from snake
RC venom using liquid chromatography-electrospray mass spectrometry and
RX Edman degradation.";
RN Eur. J. Biochem. 266:352-358(1999).
CC -!- FUNCTION: Galactose-binding protein which recognizes specific
CC carbohydrate structures and agglutinates a variety of animal cells
CC by binding to cell-surface glycoproteins and glycolipids. May be a
CC calcium-dependent lectin.
CC -!- SUBUNIT: Homodimer; disulfide-linked.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- MASS SPECTROMETRY: MW=17924.2; MW_ERR=2.4; METHOD=Electrospray;
CC RANGE=24-158.
CC -!- MISCELLANEOUS: Met-33 has been shown to be oxidized to methionine
CC sulfoxide (Ref.2) but this probably results from sample treatment
CC prior to mass spectrometry.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC or send an email to license@sib-sib.ch).
CC -----
DR EMBL; AF119037; AAD17252.1; .
DR HSPF; P22897; LEGG.
DR GlycoScitedB; Q9YGF1; .
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatins_ac.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN 2; 1.
KW Lectin; Signal; Calcium; Glycoprotein.
FT SIGNAL 1 23
FT CHAIN 24 158 GALACTOSE-BINDING LECTIN.
FT DOMAIN 24 158 C-TYPE LECTIN.
FT DISULFID 26 37 BY SIMILARITY.
FT DISULFID 54 154 BY SIMILARITY.
FT DISULFID 61 156 BY SIMILARITY.
FT DISULFID 129 146 BY SIMILARITY.
FT DISULFID 109 109 INTERCHAIN (BY SIMILARITY).
FT CARBOHYD 28 28 N-LINKED (GLCNAC. .) (HIGH MANNOSE).
FT SEQUENCE 158 AA; 18635 MW; 2077EC62B7A08FF9 CEC64;
```

```
Query Match 13.0%; Score 145; DB 1; Length 158;
Best Local Similarity 26.7%; Pred. No. 4.4e-06;
Matches 39; Conservative 20; Mismatches 51; Indels 36; Gaps 5;

QY 20 CYKVIYFHDTSRLNFEFEAKACR--RDGGOLVSEDEQKLEKFIENLLPSDGFWI 77
Db 37 CYKIF-----DEPTWEDAENFCKYKPGCHLASFHLAESLDIAEIVSYDHYKRAEVI 91
```


FT VARSPLIC 646 883 Missing (in isoform 2).
FT CONFLICT 51 52 /FTID=VSP_003077.
FT CONFLICT 503 503 AL -> WV (IN REF. 3).
FT CONFLICT 518 519 V -> L (IN REF. 2).
FT CONFLICT 526 526 TV -> PA (IN REF. 2).
FT CONFLICT 541 541 G -> R (IN REF. 2).
FT CONFLICT 556 556 G -> A (IN REF. 2).
FT CONFLICT 573 573 R -> S (IN REF. 2).
FT CONFLICT 583 583 E -> A (IN REF. 2).
FT CONFLICT 649 649 V -> L (IN REF. 2).
FT CONFLICT 670 670 V -> L (IN REF. 2).
FT CONFLICT 738 738 P -> A (IN REF. 2).
FT CONFLICT 809 809 R -> A (IN REF. 2).
SQ SEQUENCE 883 AA; 96057 MW; AC7ACC40CB3ED37 CRC64;

Query Match 13.0%; Score 145; DB 1; Length 883;
Best Local Similarity 29.7%; Pred. No. 3.7e-05;
Matches 43; Conservative 20; Mismatches 46; Indels 36; Gaps 8;

QY 17 QRCYKVIYFHDTSRRINFEAEKACRRDGGQVLVSIESDEQKLI-EKFIENLLPSDGDGF 75
DB 672 QGACYK---HFSTR-SWEASGQCALGAHTSICTPEEQDFVNDREYQ----- 719
QY 76 WIGLRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEPS---CGSEVCVVM-YHQSAP 131
DB 720 WIGL-----NDRTIEGDFLMSDGPPLLYENWNPQDPSYFLSGENCVMVWHDQ-- 769
QY 132 AGIGGPFYFOWNDRCNMKNFICK 156
DB 770 -----QNSDVPCNYHLSYCK 785

RESULT 28
LEC2 MEGRO
ID LEC2 MEGRO STANDARD; PRT; 173 AA.
AC P17346;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE LECTIN BRA-2.
OS Megabalanus rosa (Acorn barnacle).
OC Eukaryota; Metazoa; Arthropoda; Crustacea; Maxillopoda; Cirripedia;
OC Thoracica; Sessilia; Balanomorpha; Balanoidae; Balanidae;
OC Megabalanus
OX NCBI_TaxID=6680;
RN [1]
RP SEQUENCE.
RC TISSUE=Coelomic fluid;
RX MEDLINE=90283457; PubMed=2354200;
RA Muramoto K., Kamiya H.;
RT "The amino-acid sequence of multiple lectins of the acorn barnacle
Megabalanus rosa and its homology with animal lectins.";
RL Biochim. Biophys. Acta 1039:42-51(1990).
[2]
RN DISULFIDE BONDS, AND CARBOHYDRATE-LINKAGE SITE.
RX MEDLINE=90283459; PubMed=2354201;
RA Muramoto K., Kamiya H.;
RT "The positions of the disulfide bonds and the glycosylation site in a
lectin of the acorn barnacle Megabalanus rosa.";
RL Biochim. Biophys. Acta 1039:52-60(1990).
CC -!- FUNCTION: Sugar-binding protein which recognizes specific
carbohydrate structures and agglutinates a variety of animal cells
by binding to cell-surface glycoproteins and glycolipids. Calcium-
dependent lectin. Invertebrate lectins may be involved in defense
functions.
CC -!- SUBUNIT: Homohexamer; disulfide-linked.
CC -!- TISSUE SPECIFICITY: Coelomic fluid.
CC -!- MISCELLANEOUS: This lectin binds galactose.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
DR PIR; S10548; S10548.
DR HESP; P23806; 11XX.
DR InterPro; IPR002353; AntifreezeII.

DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT. 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PSS0041; C-TYPE LECTIN_2; 1.
KW Glycoprotein; Lectin; Calcium.
FT DOMAIN 51 170 C-TYPE LECTIN (LONG FORM).
FT DISULFID 14 14 INTERCHAIN (WITH C-50 IN OTHER CHAIN).
FT DISULFID 50 50 INTERCHAIN (WITH C-1 IN OTHER CHAIN).
FT DISULFID 47 61
FT DISULFID 78 168
FT DISULFID 144 160
FT CARBOHYD 39 N-LINKED (GLCNAC...)
SQ SEQUENCE 173 AA; 19580 MW; 0D90DCA1F805D818 CRC64;

Query Match 13.0%; Score 144.5; DB 1; Length 173;
Best Local Similarity 28.6%; Pred. No. 5.4e-06;
Matches 38; Conservative 18; Mismatches 50; Indels 27; Gaps 5;

QY 26 FHDTSRRINFEAEKACRR--DGGQVLVSIESDEQKLI-EKFIENLLPSDGDGFWIGLRRE 83
DB 62 FHVLEKASVMVAVGVCAVLRDLSARLASIDAAD-QAVVEPL-----SSEKMWIGL-- 110
QY 84 EKOSNSTACQDLYAWTDGSIQFRNMYVDEPSGSEVCVVMYHQSAPAGIGGPFYFOWN 143
DB 111 ----SYDSANDAAMVADDSSHSHRNWYATQPDDESELVLIKEDQVR-----QWH 156
QY 144 DRCNMKNFICK 156
DB 157 DYNCDNRNFVCE 169

RESULT 29
LEM1 RAT
ID LEM1 RAT STANDARD; PRT; 372 AA.
AC P30836;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion
molecule-1) (LAM-1) (LY-22) (Lymphocyte surface MEL-14 antigen)
DE (Leukocyte-endothelial cell adhesion molecule 1) (LECAM1) (CD62L).
GN SELL OR LNER OR LY-22.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Rutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=92329548; PubMed=1378303;
RA Watanabe T., Song Y., Hirayama Y., Tamatani T., Kuida K., Miyasaka M.;
RT "Sequence and expression of a rat cDNA for LECAM-1.";
RL Biochim. Biophys. Acta 1131:321-324(1992).
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of
lymphocytes to endothelial cells of high endothelial venules in
peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
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DR EMBL; D10831; BAA01613.1; -.
DR PIR; S23936; S23936.

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 CC or send an email to license@isb-sib.ch).

CC EMBL; M99371; AAA74898.1; -
 CC EMBL; M34163; AAA37603.1; -
 CC EMBL; X64223; CAA45532.1; -
 CC EMBL; X64224; CAA45533.1; -
 CC PIR; A43518; LNNSEK.
 CC DB; IHL0; 31-JAN-94.
 CC MGD; MGI:195497; Fcer2a.
 CC InterPro; IPR002353; AntifreezeII.
 CC InterPro; IPR001304; Lectin_C.
 CC Pfam; PF00059; lectin_c; 1.
 CC PRINTS; PR00356; ANTIFREEZEII.
 CC SMART; SM00034; CLECT; 1.
 CC PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 CC PROSITE; PS50041; C-TYPE LECTIN 2; 1.
 CC Receptor; PS50041; C-TYPE LECTIN 2; 1.
 CC Transmembrane; LECTIN; Igg-binding protein; Repeat; Signal-anchor;
 CC 3D-structure. 1 23 CYTOPLASMIC (POTENTIAL).
 CC DOMAIN 1 23 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 CC TRANSMEM 24 49 (POTENTIAL).
 CC DOMAIN 50 331 EXTRACELLULAR (POTENTIAL).
 CC DOMAIN 185 298 EXTRACELLULAR (POTENTIAL).
 CC REPEAT 71 91 C-TYPE LECTIN (LONG FORM).
 CC REPEAT 92 112
 CC REPEAT 113 133
 CC DISULFID 183 311 BY SIMILARITY.
 CC DISULFID 186 197 BY SIMILARITY.
 CC DISULFID 214 305 BY SIMILARITY.
 CC DISULFID 282 296 BY SIMILARITY.
 CC CARBOHYD 65 65 N-LINKED (GLCNAC. .) (POTENTIAL).
 CC CARBOHYD 114 114 N-LINKED (GLCNAC. .) (POTENTIAL).
 CC VARSPLIC 1 7 MEENYS -> MNSQNG (in isoform B).
 CC VARSPLIC 1 7 MEENYS -> MDTHHT (in isoform C).
 CC VARSPLIC 1 7 /FTIG=VSP_003058.
 CC VARSPLIC 1 7 /FTIG=VSP_003059.
 CC STRAND 197 200
 CC HELIX 207 216
 CC TURN 217 218
 CC STRAND 220 221
 CC HELIX 227 237
 CC TURN 238 239
 CC STRAND 242 247
 CC TURN 249 250
 CC TURN 252 253
 CC TURN 256 257
 CC TURN 258 259
 CC STRAND 260 262
 CC STRAND 268 268
 CC TURN 270 271
 CC TURN 277 278
 CC STRAND 282 285
 CC TURN 287 288
 CC STRAND 291 294
 CC TURN 296 297
 CC STRAND 304 307
 CC SEQUENCE 331 AA; 37647 MW; B8C6D65F34ACD82 CRC64;
 Query Match 12.7%; Score 141.5; DB 1; Length 331;
 Best Local Similarity 31.8%; Pred. No. 2.2e-05;
 Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;
 QY 17 QRPCKVITYFDTHRRLLNFEEAKACRRDGGGLYSISEDEQKLIKFIENLAFSDGDFW 76
 DB 194 QOKCY---YFGKGSQ--WIQARFACSDLQGRVLSHSQKEQDFLMQHI-----NKKDSW 243

QY 77 IGLRREBKQSNSTACODL-----YAWTDGSIQFRNRYVDEPSCG--SEVCVVMYHQPS 129
 DB 244 IGL-----QDLNMEGFVWSDSPVGYSNWNPGEFNNQGGEDCVNM----- 285
 QY 130 APAIGGYPMPQWDDRC-NMKNNFICK 156
 DB 286 --RSGS-----QMNDAFCRSYLDAWVCE 306

RESULT 32

LEM2 RAT
 ID LEM2 RAT STANDARD; PRT; 549 AA.
 AC P98105;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE E-selectin precursor (Endothelial leukocyte adhesion molecule 1)
 DE (ELAM-1) (Leukocyte-endothelial cell adhesion molecule 2) (LECAM2).
 GN SELE OR ELAM-1.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Lung;
 RA Rosenbloom C.L., Auchampach J.A., Anderson D.C., Manning A.M.;
 RL Submitted (NOV-1993) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Expressed on cytokine induced endothelial cells and
 CC mediates their binding to leukocytes. The ligand recognized by
 CC ELAM-1 is sialyl-Lewis X (alpha(1->3)fucosylated derivatives of
 CC polyactosamine that are found at the nonreducing termini of
 CC glycolipids).
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 EGF-like domain.
 CC -!- SIMILARITY: Contains 5 Sushi (SCR) domains.
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 CC or send an email to license@isb-sib.ch).

CC EMBL; L25527; AAA41113.1; -
 CC DR HSHP; P16581; 1KJA.
 CC InterPro; IPR006209; EGF like.
 CC InterPro; IPR006210; IEGF.
 CC InterPro; IPR001304; Lectin_C.
 CC InterPro; IPR002396; Selectin.
 CC InterPro; IPR000436; Sushi_SCR_CCP.
 CC Pfam; PF00008; EGF; 1.
 CC Pfam; PF00059; lectin_c; 1.
 CC Pfam; PF00084; sushi_5.
 CC PRINTS; PR00343; SELECTIN.
 CC SMART; SM00032; CCP; 5.
 CC SMART; SM00034; CLECT; 1.
 CC SMART; SM00181; EGF; 1.
 CC PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 CC PROSITE; PS50041; C-TYPE LECTIN 2; 1.
 CC PROSITE; PS00022; EGF 1; 1.
 CC PROSITE; PS01186; EGF 2; 1.
 CC PROSITE; PS50026; EGF 3; 1.
 CC Cell adhesion; Transmembrane; Glycoprotein; EGF-like domain; Lectin;
 CC Selectin; Signal; Sushi; Repeat.
 CC SIGNAL 1 21 POTENTIAL.
 CC CHAIN 22 549 E-SELECTIN.
 CC DOMAIN 22 494 EXTRACELLULAR (POTENTIAL).
 CC TRANSMEM 495 516 POTENTIAL.

FT	DOMAIN	517	549	CTYOPLASMIC (POTENTIAL).
FT	DOMAIN	22	139	C-TYPE LECTIN.
FT	DOMAIN	140	175	EGF-LIKE.
FT	DOMAIN	179	239	SUSHI 1.
FT	DOMAIN	242	301	SUSHI 2.
FT	DOMAIN	304	364	SUSHI 3.
FT	DOMAIN	367	427	SUSHI 4.
FT	DOMAIN	430	486	SUSHI 5.
FT	DISULFID	40	138	BY SIMILARITY.
FT	DISULFID	111	130	BY SIMILARITY.
FT	DISULFID	143	154	BY SIMILARITY.
FT	DISULFID	148	163	BY SIMILARITY.
FT	DISULFID	165	174	BY SIMILARITY.
FT	DISULFID	180	225	BY SIMILARITY.
FT	DISULFID	210	238	BY SIMILARITY.
FT	DISULFID	243	287	BY SIMILARITY.
FT	DISULFID	273	300	BY SIMILARITY.
FT	DISULFID	305	350	BY SIMILARITY.
FT	DISULFID	326	363	BY SIMILARITY.
FT	DISULFID	368	413	BY SIMILARITY.
FT	DISULFID	399	426	BY SIMILARITY.
FT	DISULFID	431	472	BY SIMILARITY.
FT	DISULFID	458	485	BY SIMILARITY.
FT	CARBOHYD	25	25	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	60	60	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	145	145	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	192	192	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	203	203	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	266	266	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	313	313	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	320	320	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	333	333	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	441	441	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	465	465	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	SEQUENCE	549 AA;	60079 MW; 85CEECDB7B0144C8 CRC64;	
Query Match		12.7%;	Score 141.5; DB 1; Length 549;	
Best Local Similarity		26.5%;	Pred. No. 4.2e-05;	
Matches	36; Conservative	28; Mismatches	47; Indels	25; Gaps
QY	25	YFHDTSRINLFEAKEACRRGGOLVISEDEQKLEFIENLLPSDGFHWIGLRREE	84	
Db	23	YYNASSELMTYDEASAYCQRDYLTHVAIONKEE---	INYLNSTLSPSPYYWIGIRK---	76
QY	85	KQSNSTACQDLYAWTDGSG---	ISQFRWYWDKPS--CGSEVCVMYHQSPAPAGGGPYM	139
Db	77	-----VNNVWVWVGTKPTTEAKWAGPEPNKQRNEDCVETIQRPKDSGM---	124	
QY	140	FQWDDRCNMKNFIC	155	
Db	125	--WNDERCDKKKALC	138	
RESULT 33				
LECS_MEGRO				
ID	LECS_MEGRO	STANDARD;	PRT;	162 AA.
AC	P07439;			
DT	01-APR-1988	(Rel. 07, Created)		
DT	01-OCT-1996	(Rel. 34, Last sequence update)		
DT	10-OCT-2003	(Rel. 42, Last annotation update)		
DE	Lectin BRA-3 precursor.			
OS	Megabalanus rosa (Acorn barnacle).			
OC	Eukaryota; Metazoa; Arthropoda; Crustacea; Maxillopoda; Cirripedia;			
OC	Thoracica; Sessilia; Balanomorpha; Balanoidae; Balanidae;			
OC	Megabalanus.			
OX	NCBI_TaxID=6680;			
RN	[1]			
SEQUENCE FROM N.A.				
RP	MEDLINE=93292994; PubMed=8514190;			
RA	Takamatsu N., Takeda T., Kojima M., Heishi M., Muramoto K.,			
RA	Kamiya H., Shiba T.;			
RT	"Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene			
DT	characterization and seasonal changes of mRNA and protein levels."			

DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DE 28-FEB-2003 (Rel. 41, Last annotation update)
 DE L-selectin precursor (lymph node homing receptor) (leukocyte adhesion molecule 1)
 DE molecule-1) (LAM-1) (leukocyte-endothelial cell adhesion molecule 1)
 DE (LECAM1) (CD62L).
 GN SELL.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 OC NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92164727; PubMed=1371468;
 RA Walcheck B., White M., Kurk S., Kishimoto T.K., Jutila M.A.;
 RT "Characterization of the bovine peripheral lymph node homing
 RT receptor: a lectin cell adhesion molecule (LECAM).";
 RL Eur. J. Immunol. 22:469-476(1992).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=94055053; PubMed=7694420;
 RA Bosworth B.T., Dombenko D., Shuster D.E., Harp J.A.;
 RT "Bovine L-selectin: a peripheral lymphocyte homing receptor.";
 RL Vet. Immunol. Immunopathol. 37:201-215(1993).
 CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of
 CC lymphocytes to endothelial cells of high endothelial venules in
 CC peripheral lymph nodes.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 EGF-like domain.
 CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
 CC -----
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 CC -----
 DR EMBL; X62882; CAA44676.1; --.
 DR PIR; S22124; S22124.
 DR HSP; P14151; IKUB.
 DR InterPro; IPR006209; EGF like.
 DR InterPro; IPR006210; IEGF.
 DR InterPro; IPR001304; Lectin C.
 DR InterPro; IPR002396; Selectin.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 1.
 DR Pfam; PF00059; lectin_C; 1.
 DR Pfam; PF00084; sushi; 2.
 DR PRINTS; PR00343; SELECTIN.
 DR SMART; SM00032; CCP; 2.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00181; EGF; 1.
 DR PROSITE; PS00815; C-TYPE LECTIN_1; 1.
 DR PROSITE; PS00841; C-TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 1.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS0026; EGF_3; 1.
 DR PROSITE; PS0026; EGF_3; 1.
 KW Cell adhesion; Transmembrane; Glycoprotein; EGF-like domain; Lectin;
 KW Selectin; Signal; Sushi; Repeat.
 FT SIGNAL 1 28
 FT PROPEP 29 38
 FT CHAIN 39 370
 FT DOMAIN 39 333
 FT DOMAIN 334 354
 FT TRANSMEM 355 370
 FT DOMAIN 355 370
 FT DOMAIN 55 175
 FT DOMAIN 156 192
 FT DOMAIN 196 255
 FT DOMAIN 258 317
 FT SUSHI 1.
 FT SUSHI 2.

FT DISULFID 57 155 BY SIMILARITY.
 FT DISULFID 128 147 BY SIMILARITY.
 FT DISULFID 160 171 BY SIMILARITY.
 FT DISULFID 165 180 BY SIMILARITY.
 FT DISULFID 182 191 BY SIMILARITY.
 FT DISULFID 197 241 BY SIMILARITY.
 FT DISULFID 227 254 BY SIMILARITY.
 FT DISULFID 259 303 BY SIMILARITY.
 FT DISULFID 289 316 BY SIMILARITY.
 FT CARBOHYD 60 60 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 77 77 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 104 104 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 177 177 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 216 216 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 226 226 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 246 246 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 308 308 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 320 320 N-LINKED (GLCNAC. .) (POTENTIAL).
 SQ SEQUENCE 370 AA; 41971 MW; 92168F8116AE9228 CRC64;
 Query Match 12.6%; Score 140; DB 1; Length 370;
 Best Local Similarity 25.3%; Pred. No. 3.5e-05;
 Matches 46; Conservative 35; Mismatches 57; Indels 44; Gaps 9;
 QY 26 FHTSRLNFEFEAKEACRRDGGQGVSEDEQKLEKFIENLTP-SDGDFWIGLRREE 84
 DB 41 YHYSKAPMPWEKARAFRENYTDLVAIQNGE---IE-YINKTLPSPRTYYWIGIRKVB- 95
 QY 85 QKSNSTACQDLYAW--TDGIS-QFRNYYVDPS--CGSEVCVVMVHQSAPAGIGPYM 139
 DB 96 -----GVWTWGTNKSLLTEAKNGAGBNRKSKECDVEIYIKRNDSG----- 140
 QY 140 FQNDRCRMKNFNICKYDKEKPAVPSREAE-----GEETELTTPVLP 182
 DB 141 -KWNDDACHAKATLCYTASCPWSCSGHGQCVVEINNTYTCNDLGYGPEQCFVTQCVF 199
 QY 183 EE 184
 DB 200 LE 201
 RESULT 35
 PSPA HUMAN STANDARD; PRT; 248 AA.
 ID PSPA HUMAN
 AC P07714;
 DT 01-APR-1988 (Rel. 07, Created)
 DT 01-APR-1990 (Rel. 14, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
 DE (PSP) (Alveolar proteinosis protein) (35 kDa pulmonary surfactant-
 DE associated protein).
 GN (SFTPA1 OR SFTPA OR SFTP1 OR PSPA) AND (SFTPA2 OR SFTPA).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RN SEQUENCE FROM N.A.
 RX MEDLINE=86250832; PubMed=3755136;
 RA Floros J., Steinbrink R., Jacobs K., Phelps D., Kriz R., Recny M.,
 RA Sultzman L., Jones S., Taeusch H.W., Frank H.A., Fritsch E.F.;
 RT "Isolation and characterization of cDNA clones for the 35-kDa
 RT pulmonary surfactant-associated protein.";
 RL J. Biol. Chem. 261:9029-9033(1986).
 RN [2]
 RN SEQUENCE FROM N.A.
 RX MEDLINE=86014366; PubMed=2995821;
 RA White R.T., Damm D., Miller J., Spratt K., Schilling J., Hawgood S.,
 RA Benson B., Cordell B.;
 RT "Isolation and characterization of the human pulmonary surfactant
 RT apoprotein gene.";
 RL Nature 317:361-363(1985).
 RN [3]


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FT CONFLICT 54 54 P -> L (IN REF. 2).
FT CONFLICT 91 91 P -> A (IN REF. 3).
FT CONFLICT 100 100 P -> R (IN REF. 2); AAA36510).
FT CONFLICT 247 247 E -> D (IN REF. 3).
SQ SEQUENCE 248 AA; 26214 MW; 6A9F0C3488BF3633 CRC64;

Query Match 12.5%; Score 139; DB 1; Length 248;
Best Local Similarity 25.2%; Pred. No. 2.6e-05;
Matches 36; Conservative 18; Mismatches 45; Indels 44; Gaps 4;

QY 26 FHTSRLNFEAKEACRDGGOLVIESDEOKLTKFIENLL-----PSDGF 75
DB 139 FSSNGSITFDATQECACAGAGIAVPRNEENATASFVKYNTVAYVGLTSPSPGF 198
QY 76 WIGLRRERKQNSTACQDLYATDGSISQFRNYYVDEPS-CGSEVCVMYHOPSAPAGI 134
DB 199 -----RYSGDTPVNTWYRGEPAGRGKEQCVEMVTDG----- 231

QY 135 GGPYMQWDDRCMKKNFFICKY 157
DB 232 -----QWDRNGLYSRLTICEF 248

RESULT 36
LECA SARPE STANDARD; PRT; 283 AA.
AC P05047;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Lectin, alpha subunit precursor.
OS Sarcophaga peregrina (Flesh fly) (Boettcherisca peregrina).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
OC Sarcophagidae; Sarcophaga.
CX NCBI_TaxID=7386;
RN [1]
RP SEQUENCE FROM N.A. AND PARTIAL SEQUENCE.
RX MEDLINE=86008294; PubMed=2411021.
RA Takahashi H., Komano H., Kawaguchi N., Kitamura N., Nakanishi S.,
RA Natori S.;
RT "Cloning and sequencing of cDNA of Sarcophaga peregrina humoral
RT lectin induced on injury of the body wall.";
RL J. Biol. Chem. 260:12228-12233(1985).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=94139722; PubMed=8307011;
RA Matsui M., Kobayashi A., Kubo T., Natori S.;
RA "Purification and characterization of ATBP, a novel protein that
RT binds to A/T stretches in three segments of the Sarcophaga lectin
RT gene.";
RL Eur. J. Biochem. 219:449-454(1994).
RN [3]
RP SEQUENCE OF 1-38 FROM N.A.
RX MEDLINE=90089397; PubMed=2480809;
RA Kobayashi A., Hirai H., Kubo T., Veno K., Nakanishi Y., Natori S.;
RT "Cloning and in vitro transcription of the Sarcophaga lectin gene.";
RL Biochim Biophys Acta 1009:244-250(1989).
CC -!- FUNCTION: Role in the defence system of the organism against
CC microorganisms. This lectin binds galactose.
CC -!- INDUCTION: By injury of the body wall.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- CAUTION: It is uncertain whether Met-1 or Met-5 is the initiator.
CC
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CC
CC DR EMBL; M11673; AAA29983.1; -

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DR EMBL; D14870; BAA03586.1; -;
 DR EMBL; X16659; CAA34645.1; -;
 DR PIR; S07759; LNFHLS.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
 KW LECTIN; Signal.
 FT SIGNAL 1 23
 FT CHAIN 24 283 LECTIN, ALPHA SUBUNIT.
 FT DOMAIN 51 159 C-TYPE LECTIN (SHORT FORM).
 FT DISULFID 53 157 BY SIMILARITY.
 FT DISULFID 132 149 BY SIMILARITY.
 SQ SEQUENCE 283 AA; 32991 MW; F324BF1A1140B3AC CRC64;
 Query Match 12.5%; Score 139; DB 1; Length 283;
 Best Local Similarity 23.4%; Pred. No. 3.1e-05;
 Matches 41; Conservative 39; Mismatches 79; Indels 16; Gaps 6;
 QY 25 YFHTSRLNFEAKACRDGGLVLSIESEDEQKLEKFIENLLPSDGFHWIGLRRREE 84
 Db 36 YLIETLKNYQAWHECARHQQLVTIESADKNNAILDLVRVGVKSHNLWLQ---GND 92
 QY 85 KGSNSTACQDLXAWT-DGSIQFRNWNVDEPS--CGSEVGVVMYHQPAPAGIGGPGYMFQ 141
 Db 93 EYSSRDYGRPFWSPTGOAFSPAYWSENNPDYKHQHCYHIW--DTKP-----LYQ 143
 QY 142 WNDRCNMKNQNTICKYSDEKPAV-PSREAEGTETLTPVLPETQBEDAKTKFK 195
 Db 144 WNDRCNMKNVGYCEPNHFRETYDQALQKCKAIKITNSKISTEPDQLHAKQSLE 198
 RESULT 37
 ID -LXA-TRIFL STANDARD; PRT; 152 AA.
 AC F23806; Q91246;
 DT 01-NOV-1991 (Rel. 20, Created)
 DT 15-JUL-1998 (Rel. 36, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Coagulation factor IX/factor X-binding protein A chain precursor (IX/X-BP).
 OS Trimeresurus flavoviridis (Habu).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroides;
 OC Viperidae; Crotalinae; Trimeresurus.
 ON NCBI_TaxID=88087;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96184662; PubMed=8645314;
 RA Matsuzaki R., Yoshihara E., Yamada M., Shima K., Atoda H., Morita T.;
 RT "cDNA cloning of IX/X-BP, a heterogeneous two-chain anticoagulant protein from snake venom."
 RL Biochem. Biophys. Res. Commun. 220:382-387(1996).
 RN [2]
 RP SEQUENCE OF 24-152.
 RX TISSUE=Venom;
 RN MEDLINE=91332000; PubMed=1831197;
 RA Atoda H., Hyuga M., Morita T.;
 RT "The primary structure of coagulation factor IX/factor X-binding protein isolated from the venom of Trimeresurus flavoviridis.
 RT Homology with asialoglycoprotein receptors, proteoglycan core protein, tetranectin, and lymphocyte Fc epsilon receptor for immunoglobulin E."
 RL J. Biol. Chem. 266:14903-14911(1991).
 RN [3]
 RP X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS).
 RX MEDLINE=97331317; PubMed=9187649;
 RA Mizuno H., Fujimori Z., Koizumi M., Kano H., Atoda H., Morita T.;
 RT "Structure of coagulation factors IX/X-binding protein, a heterodimer of C-type lectin domains."
 RL Nat. Struct. Biol. 4:438-441(1997).
 CC -!- FUNCTION: Anticoagulant protein which binds with factor IX and

factor X in the presence of calcium with a 1 to 1 stoichiometry.
 -!- SUBUNIT: Heterodimer of chains A and B; disulfide-linked.
 -!- SUBCELLULAR LOCATION: Secreted.
 -!- MISCELLANEOUS: Calcium is required for ligand binding.
 -!- SIMILARITY: Contains 1 C-type lectin family domain.
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 EMBL; D83331; BAA11887.1; -;
 DR PIR; JC4690; JC4690.
 DR PDB; 1LXX; 06-MAY-98.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR003990; Pancratia_ac.
 DR Pfam; PF00059; lectin_c; 1.
 DR PRINTS; PR01504; PNCREATITSAP.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
 KW LECTIN; Calcium; Signal; 3D-structure.
 FT SIGNAL 1 23
 FT CHAIN 24 152
 FT DOMAIN 24 152
 FT DISULFID 25 36
 FT DISULFID 53 150
 FT DISULFID 102 102
 FT DISULFID 125 142
 FT TURN 27 28
 FT STRAND 30 31
 FT STRAND 36 44
 FT HELIX 46 56
 FT TURN 58 59
 FT STRAND 61 62
 FT HELIX 68 81
 FT STRAND 89 95
 FT STRAND 105 105
 FT TURN 107 108
 FT STRAND 111 111
 FT STRAND 117 117
 FT HELIX 119 121
 FT STRAND 125 128
 FT HELIX 130 132
 FT TURN 133 134
 FT STRAND 137 140
 FT TURN 142 143
 FT STRAND 146 152
 SQ SEQUENCE 152 AA; 17213 MW; FB3DD2369009263 CRC64;
 Query Match 12.4%; Score 138.5; DB 1; Length 152;
 Best Local Similarity 28.4%; Pred. No. 1.6e-05;
 Matches 40; Conservative 23; Mismatches 49; Indels 29; Gaps 7;
 QY 20 CYKVIYFHDTSRLNFEAKAC--RRDGGQLVSTESDEQKLEKFI-ENLLPSDGFHW 76
 Db 36 CYKAEKTKT-----WEDAEVCTQAKGAHLVLSSEGEADFVQLVTQNKRLDFIWI 90
 QY 77 IGLR-RREEKQSNSTACQDLXAWTDGSIQFRNWNVDEPSCGSEVGVVMYHQPAPAGIG 135
 Db 91 IGLRVQGVKQKQNS-----EWSGSSVSVENWTEAE---SKTCLGLEKTD----- 133
 QY 136 GPFYFQWNNDRCNMKNPFICK 156
 Db 134 ----FRKWNIVCGQNPFVCE 151
 RESULT 38
 TETN_MOUSE

ID TETN MOUSE STANDARD; PRT; 202 AA.
AC P43025;
DT 01-NOV-1995 (Rel. 32, Created)
DI 01-FEB-1996 (Rel. 33, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Tetranectin precursor (TN) (Plasminogen-kringle 4 binding protein).
GN TNA.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;
RX MEDLINE=95137396; PubMed=7835708;
RA Soerensen C.B., Berglund L., Petersen T.E.;
RT "Cloning of a cDNA encoding murine tetranectin";
RL Gene 152:243-245(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/C;
RX MEDLINE=96116955; PubMed=8563165;
RA Ibaraki K., Kozak C.A., Wewer U.M., Albrechtsen R., Young M.F.;
RT "Mouse tetranectin: cDNA sequence, tissue-specific expression, and
chromosomal mapping";
RL Mamm. Genome 6:693-696(1995).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/C; TISSUE=Liver;
RX MEDLINE=98072445; PubMed=9403787;
RA Soerensen C.B., Berglund L., Petersen T.E.;
RT "Cloning of the murine tetranectin gene and 5'-flanking region.";
RL Gene 201:199-202(1997).
CC -1- FUNCTION: Tetranectin binds to plasminogen and to isolated kringle
4. May be involved in the packaging of molecules destined for
exocytosis (By similarity).
CC -1- SUBUNIT: Homotrimer (By similarity).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Highest expression in lung and skeletal
muscle.
CC
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC
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entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
or send an email to license@isb-sib.ch).
CC
CC EMBL; X79199; CAA55791.1; -;
CC EMBL; U08595; AAA96811.1; -;
CC EMBL; X98122; CAA66804.1; -;
CC PIR; JC4031; JC4031.
CC HSSP; P05452; 1TN3.
CC MGP; MGI-104540; Tna.
CC GO; GO:0001501; P:skeletal development; IMP.
CC InterPro; IPR001304; Lectin_C.
CC Pfam; PF00059; lectin_c; 1.
CC PRINTS; PR01504; PNCREATITSAP.
CC SMART; SM00034; CLECT; 1.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
CC PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Lectin; Plasma; Signal.
FT SIGNAL 1 21 BY SIMILARITY.
FT CHAIN 22 202 TETRANECTIN.
FT DOMAIN 77 198 C-TYPE LECTIN.
FT DISULFID 71 81 BY SIMILARITY.
FT DISULFID 98 197 BY SIMILARITY.
FT DISULFID 173 189 BY SIMILARITY.
FT CONFLICT 19 20 LT -> VI (IN REF. 2).
FT CONFLICT 84 84 A -> T (IN REF. 2).
FT

FT CONFLICT 180 180 A -> R (IN REF. 2).
FT CONFLICT 188 188 R -> O (IN REF. 2).
SQ SEQUENCE 202 AA; 22257 MW; 639E7334D58EB04E CRC64;
Query Match 12.4%; Score 138.5; DB 1; Length 202;
Best Local Similarity 26.3%; Pred. NO. 2.3e-05;
Matches 41; Conservative 30; Mismatches 56; Indels 29; Gaps 7;
QY 9 QPVCGRGTORPCVKVIVFHDTSRLNFEAKACRDGGQLVSIEDSEKLIKFIENL 68
DB 68 QTVCCLKTKVNLKLLAF---TOPKTFHEASEDCISQGGTLGTFQSELENEALFEYARHS 124
QY 69 LPFGDGFWIGLRREBKQNSATACDLYAWTD--GSISQFRNMYVD---EPSCG-SEVCV 122
DB 125 VGNDANIWLGL-----NDMAAEG--AWVDMTGGLLAYKNWETETITTPDGGKAENC- 173
QY 123 VMYHQPSPAPAGIGGYPYMFOWNDRCNMKNFICKYS 158
DB 174 -----AALSGAANGKWFDRCDQLPYICQFA 200
RESULT 39
LEMI MACMU
ID LEMI MACMU STANDARD; PRT; 372 AA.
AC Q95198;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (lymph node homing receptor) (Leukocyte adhesion
molecule-1) (LAM-1) (Leukocyte-endothelial cell adhesion molecule 1)
DE (LFCAM1) (CD62L).
GN SELL.
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
OC Cercopitheidae; Macaca.
CX NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Budman J.I., Fu H., Johnson C.E., Thakur A.B., Berg E.L.,
RA Tsumashita N.;
RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: Cell surface adhesion protein. Mediate the adherence of
lymphocytes to endothelial cells of high endothelial venules in
peripheral lymph nodes.
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- SIMILARITY: Belongs to the selectin/LFCAM family.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -1- SIMILARITY: Contains 1 EGF-like domain.
CC -1- SIMILARITY: Contains 2 Sushi (SCR) domains.
CC
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CC
CC EMBL; U73730; AAB18246.1; -;
CC HSSP; P14151; IKJB.
CC InterPro; IPR006209; EGF like.
CC InterPro; IPR006210; IEGF.
CC InterPro; IPR001304; Lectin_C.
CC InterPro; IPR002396; Selectin.
CC InterPro; IPR000436; Sushi_SCR_CCP.
CC Pfam; PF00008; EGF; 1.
CC Pfam; PF00059; lectin_c; 1.
CC Pfam; PF00084; sushi; 2.
CC PRINTS; PR00343; SELECTIN.
CC PRINTS; SM00032; CCP; 2.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00181; EGF; 1.
CC

Db 41 YHSGENPMWQKARRFCRENTVDLVAIONKAE--IE-YLEKTLFSPSYWIGIRK--- 93
 QY 85 KQNSTACQDLYAW--TDGSIQO-FRNWYDEPS--CGSEVCVVMYHQPSAPAGIGGPKM 139
 Db 94 -----IGGIWTVGNTKSLTQBAENWNGDGEFNKNKEDCCEIYIKRKKDAG----- 140
 QY 140 FQWDDRCNNKNNFICKYDEKFAVPSREAEGETEL 176
 Db 141 -KWNDDACHRPKALCVTASQPW--SCSGHGECVEI 174

RESULT 41
 LITH_BOVIN
 ID LITH_BOVIN STANDARD; PRT; 175 AA.
 AC P23132;
 DT 01-NOV-1991 (Rel. 20, Created)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Lithostathine precursor (Pancreatic stone protein) (PSP) (Pancreatic
 thread protein) (PTP) (Islet of Langerhans regenerating protein) (REG)
 GN (Islet cells regeneration factor) (ICRF).
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=90368981; PubMed=2394826;
 RX de la Monte S.M., Ozturk M., Wands J.R.;
 RT "Enhanced expression of an exocrine pancreatic protein in Alzheimer's
 disease and the developing human brain.";
 RL J. Clin. Invest. 86:1004-1013(1990).
 RN [2]
 RP SEQUENCE OF 38-138 AND 141-175.
 RX MEDLINE=91197388; PubMed=2085387;
 RA Cai L., Harris W.R., Marshak D.R., Gross J., Crabb J.W.;
 RT "Structural analysis of bovine pancreatic thread protein.";
 RL J. Protein Chem. 9:623-632(1990).
 RN [3]
 RP SEQUENCE OF 38-85 AND 141-175.
 RX MEDLINE=95298214; PubMed=3862086;
 RA Gross J., Brauer A.W., Bringhurst R.F., Corbett C., Margolies M.N.;
 RT "An unusual bovine pancreatic protein exhibiting pH-dependent
 globule-fibril transformation and unique amino acid sequence.";
 RL Proc. Natl. Acad. Sci. U.S.A. 82:5627-5631(1985).
 CC -!- FUNCTION: Might act as an inhibitor of spontaneous calcium
 carbonate precipitation.
 CC -!- SUBUNIT: Cleaved to give an A chain and a B chain joined by a
 disulfide bond.
 CC -!- TISSUE SPECIFICITY: In pancreatic acinar cells.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC
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 CC
 CC EMBL; M59794; AAA30750.1; --
 DR PIR; A37194; A37194.
 DR HSP; P05451; IQDD.
 DR InterPro; IPR003304; Lectin.C.
 DR InterPro; IPR003990; Pancreatis_ac.
 DR Pfam; PF00059; lectin_c; 1.
 DR PRINTS; PR01504; PNCREATITSAP.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

KW Glycoprotein; Signal; Lectin.
 FT SIGNAL 1 26 POTENTIAL.
 FT PROPEP 27 37 POTENTIAL.
 FT CHAIN 38 175 LITHOSTATHINE.
 FT CHAIN 38 138 A CHAIN.
 FT CHAIN 141 175 B CHAIN.
 FT DOMAIN 38 173 C-TYPE LECTIN (LONG FORM).
 FT DISULFID 40 51 BY SIMILARITY.
 FT DISULFID 68 171 BY SIMILARITY.
 FT DISULFID 146 163 BY SIMILARITY.
 FT CONFLICT 84 85 EE -> FF (IN REF. 3).
 SQ SEQUENCE 175 AA; 19334 MW; C270EE70B7E91D6A CRC64;

Query Match 12.2%; Score 136; DB 1; Length 175;
 Best Local Similarity 24.1%; Pred. No. 3.2e-05;
 Matches 41; Conservative 23; Mismatches 64; Indels 42; Gaps 7;

QY 5 LLSQPVCRGCT--CSPCVKVIYFHDTSRLNFEAKAC--RRDGGQLVSTESDEOKL 60
 Db 33 LPSNRICSPSGSMAYRSHCVALKTKPT-----WMDADIACQKRPQSHLVSLGAESEF 87
 QY 61 IEKPIENLLPSDGFWIGLRREEKQSNSTACODLYAWTDGSIQFPRNMYVDEPSCGSEV 120
 Db 88 VASIVRNLLNTQSDIWIGL---HDPTEGSEANAGGWETISNDVLYVAVETD----- 136
 QY 121 CVVMYHQPSAPAGIGGP-----YMFQWDDRCNNKNNFICKYSD 159
 Db 137 -----PAAISSPGVCGSLRSRGYL-KWRDHNCNLNLPYVCKFTD 175

RESULT 42
 LITH_MOUSE
 ID LITH_MOUSE STANDARD; PRT; 165 AA.
 AC P43137;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Lithostathine 1 precursor (Pancreatic stone protein 1) (PSP)
 DE (Pancreatic thread protein 1) (PTP) (Islet of Langerhans regenerating
 protein 1) (REG 1).
 GN REG1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J;
 RX MEDLINE=93340209; PubMed=8340418;
 RA Unno M., Yonekura H., Nakagawara K.-I., Watanabe T., Miyashita H.,
 RA Moriizumi S., Okamoto H., Itoh T., Teraoka H.;
 RT "Structure, chromosomal localization, and expression of mouse reg
 genes, reg I and reg II. A novel type of reg gene, reg II, exists in
 the mouse genome.";
 RL J. Biol. Chem. 268:15974-15982(1993).
 CC -!- FUNCTION: Might act as an inhibitor of spontaneous calcium
 carbonate precipitation.
 CC -!- TISSUE SPECIFICITY: Expressed only in regenerating islets and
 normal exocrine pancreas, but not in normal pancreatic islets.
 CC Expressed strongly in pancreas, moderately in gallbladder, and
 weakly in liver.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC
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 or send an email to license@isb-sib.ch).
 CC
 CC EMBL; D14010; BAA03111.1; --
 DR PIR; A47148; A47148.

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DR HSSP; P05451; ILIT.
DR MGD; MGI197895; Regl.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; LECTIN_C.
DR InterPro; IPR003990; Pancreatins_ac.
DR Pfam; PF00059; lectin_c.1.
DR PRINTS; PR01356; ANTIFREEZEII.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
KW Glycoprotein; Signal; LECTIN.
FT SIGNAL 1 21 BY SIMILARITY.
FT CHAIN 22 165 LITHOSTATHINE 1.
FT DOMAIN 33 163 C-TYPE LECTIN (LONG FORM).
FT DISULFID 35 46 BY SIMILARITY.
FT DISULFID 63 161 BY SIMILARITY.
FT DISULFID 136 153 BY SIMILARITY.
FT CARBOHYD 129 129 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 165 AA; 18518 MW; 2950174AF5D666BA CRC64;

Query Match 12.1%; Score 135; DB 1; Length 165;
Best Local Similarity 26.4%; Pred. No. 3.6e-05;
Matches 37; Conservative 28; Mismatches 51; Indels 24; Gaps 8;

QY 20 CYKVIYFHTDTSRLNFEAEKACRR-DGGOLYSIESEDEKLEKFIENLLPSDGDGFWIG 78
DB 46 CY---YF--TEDRLTWADADLFQNNNSGYLSVLSQAGNFTVASLIKESGTTIDANVTG 100

QY 79 LRREBKQNSSTACQDLYAWTDGSIQFRNRYVDPEFCGSE-VCVVMYHQPSAPAGIGGP 137
DB 101 L--HDPKRRR-----MHWSSGSLFLYKSWATGSPNSNRGCV-----SLTNTG-- 144

QY 138 YMFQNDNRCKMKNFICKY 157
DB 145 -YKWKDDNCDQAQSFVCKRF 163

RESULT 43
ACAL ANSAN STANDARD; PRT; 132 AA.
AC P83300.
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Ansoalcain.
OS Anser anser anser (Western graylag goose).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anser.
OX NCBI_TaxID=8844;
RN [1]
RP SEQUENCE, FUNCTION, SUBUNIT, SUBCELLULAR LOCATION, AND MASS SPECTROMETRY.
RC TISSUE=Eggshell matrix;
RX MEDLINE=22439773; PubMed=12431998;
RA Lakshminarayanan R., Valiyaveetil S., Rao V.S., Kini R.M.;
RT "Purification, characterization, and in vitro mineralization studies of a novel goose eggshell matrix protein, ansoalcain."
RL J. Biol. Chem. 278:2928-2936(2003).
CC -!- FUNCTION: Induces spherical aggregates of calcite crystals in vitro. Believed to play an active role in the eggshell calcification.
CC -!- SUBUNIT: Homodimer or homotrimer.
CC -!- SUBCELLULAR LOCATION: Eggshell matrix. May be present in the shell glands on the walls of oviduct and incorporated into the shell structure during its formation.
CC -!- MASS SPECTROMETRY: MW=15342; METHOD=Electrospray.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; Pancreatins_ac.
DR PRINTS; PR00356; ANTIFREEZEII.

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DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.
KW LECTIN.
FT DOMAIN 1 132 C-TYPE LECTIN (LONG FORM) (BY SIMILARITY).
FT DISULFID 3 14 BY SIMILARITY.
FT DISULFID 31 128 BY SIMILARITY.
FT DISULFID 103 120 BY SIMILARITY.
SQ SEQUENCE 132 AA; 15347 MW; 36CE42EA4572E6B7 CRC64;

Query Match 12.1%; Score 134.5; DB 1; Length 132;
Best Local Similarity 26.6%; Pred. No. 3.1e-05;
Matches 38; Conservative 21; Mismatches 55; Indels 29; Gaps 7;

QY 20 CYKVIYFHTDTSRLNFEAEKACRR-DGGOLYSIESEDEKLEKFIENLLPSDGDGDF 75
DB 14 CYG--YF---GQELTWKAEAWKVIHAGCHLASLSPHEAAVARPIAKFORREEDNV 68

QY 76 WIGLRREBKQNSSTACQDLYAWTDGSIQFRNRYVDPEFCGSEVCVVMYHQPSAPAGIG 135
DB 69 WIGLHHNQAR-----VWIDGSKKRYSAWDDDELPRG-KYCVLE-----G 108

QY 136 GPYMFQNDNRCKMKNFICKYS 158
DB 109 SSGFMSWEDNACSERNPFVCKYS 131

RESULT 44
LEMI PONPY STANDARD; PRT; 372 AA.
AC Q95235;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion molecule-1) (LAM-1) (Leukocyte-endothelial cell adhesion molecule 1) (LECAM1) (CD62L).
DE SELL.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RA Budman J.I., Fu H., Johnson C.E., Thakur A.B., Berg E.L., Teurushita N.;
RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
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CC -----
CC EMBL; U73729; AAB18247.1; -.
DR HSSP; P14151; KCB.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001304; LECTIN_C.
DR InterPro; IPR002396; Selectin.
DR InterPro; IPR000436; Sushi_SCR_CCP.

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FT DISULFID 242 286 BY SIMILARITY.
 FT DISULFID 272 299 BY SIMILARITY.
 FT DISULFID 304 349 BY SIMILARITY.
 FT DISULFID 335 362 BY SIMILARITY.
 FT DISULFID 367 408 BY SIMILARITY.
 FT DISULFID 394 421 BY SIMILARITY.
 FT CARBOHYD 61 61 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 79 79 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 88 88 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 161 161 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 203 203 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 265 265 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 312 312 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 316 316 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 379 379 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 401 401 N-LINKED (GLCNAC. .) (POTENTIAL).
 SQ SEQUENCE 485 AA; 53200 MW; AE931C9B521E3904 CRC64;

Query Match 12.1%; Score 134.5; DB 1; Length 485;
 Best Local Similarity 26.0%; Pred. No. 0.00015;
 Matches 40; Conservative 31; Mismatches 58; Indels 25; Gaps 7;

QY 26 FHDTSRLNFEAKACRRDGGQLVSISSDEQKLIEXFIENLLPSCDGFWIGLRREEK 85
 DB 25 YHASTMTTFEARDYCKYTYALVAIQNEB---IEVINSTFSYSPSYWIGIRK---- 77

QY 86 QNSTACQDLYAW--TDGSIQ--QFRNYYVDEPS--CGSEVVCVMYHQPAPAGIGGPPYMF 140
 DB 78 -INGT-----WTWIGINKSLTREATNAPGEBNNQSDQEDCVYIYKREKDSG----- 124

QY 141 QNDDRCNMKNFICKYSDEKFAVPSREAGEET 174
 DB 125 KWNDEKTKQKALCYKACNPTPGSHGECVET 158

RESULT 46

TEIN_CARSP
 ID TETN_CARSP STANDARD; PRT; 166 AA.
 AC P26258;
 DT 01-MAY-1992 (Rel. 22, Created)
 DT 01-MAY-1992 (Rel. 22, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Tetranectin-like protein.
 OS Carcharhinus springeri (Reef shark).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
 OC Elasmobranchii; Galeomorphii; Galeoidea; Carcharhiniformes;
 OC Carcharhinidae; Carcharhinus.
 OX NCBI_TaxID=7809;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Neural arch cartilage;
 RX MEDLINE=93284081; PubMed=1304877;
 RA Neame P.J., Young C.N., Treep J.T.;
 RT "Primary structure of a protein isolated from reef shark
 (Carcharhinus springeri) cartilage that is similar to the mammalian
 C-type lectin homolog, tetranectin.";
 RL Protein Sci. 1:161-168 (1992).
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 DR PIR; A37289; A37289.
 DR HSP; P05452; IHTN.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KW Lectin.
 FT DOMAIN 43 161 C-TYPE LECTIN.
 FT DISULFID 37 47
 FT DISULFID 64 160
 FT DISULFID 136 152
 SQ SEQUENCE 166 AA; 18432 MW; 53EF812D8A5C6119 CRC64;

Query Match 12.0%; Score 134; DB 1; Length 166;

Best Local Similarity 26.3%; Pred. No. 4.5e-05;
 Matches 40; Conservative 23; Mismatches 63; Indels 26; Gaps 6;

QY 9 QPVCRGGTQ--RPGYKVIYFHDTSRLNFEAKEACRRDGGQLVSISSDEQKLIEXFIEN 66
 DB 34 QTVCLKGTGKHKCYLA-----SRGSKSYHAANEDCIAQGGTILSPRSSDEGNSLASYAK 88

QY 67 NLPLSPGDFFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSGSG--EVCVVVY 125
 DB 89 KSLVGARDFWIGV-----NDMTTEGFVDVNGLPITYFNWDRSKPVGGRNCVA-- 138

QY 126 HQPSAPAGIGGPPYMFQWDDRCNMKNFICKY 157
 DB 139 ---ASTSGQG-----KWSDDVCRSEKRYICEY 162

RESULT 47

ECHA_ECHA
 ID ECHA_ECHA STANDARD; PRT; 133 AA.
 AC P81017;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Echicetin alpha subunit.
 OS Echis carinatus (Saw-scaled viper).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Viperinae; Echis.
 OX NCBI_TaxID=40353;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Venom;
 RX MEDLINE=97250657; PubMed=9163349;
 RA Polgar J., Magnenat E.M., Peitsch M.C., Wells T.N.C., Saqi M.S.A.,
 RA Clemetson K.J.;
 RT "Amino acid sequence of the alpha subunit and computer modelling of
 the alpha and beta subunits of echicetin from the venom of Echis
 carinatus (saw-scaled viper).";
 RL Biochem. J. 323:533-537 (1997).
 RN [2]
 RP CHARACTERIZATION.
 RC TISSUE=Venom;
 RX MEDLINE=93244424; PubMed=8481512;
 RA Peng M., Lu W., Bevilgia L., Niewiarowski S., Kirby E.P.;
 RT "Schicetin: a snake venom protein that inhibits binding of von
 Willebrand factor and albosaggregins to platelet glycoprotein Ib.";
 RL Blood 81:2321-2328 (1993).
 CC -!- FUNCTION: Binds to platelet GPIb and inhibits platelet
 agglutination.
 CC -!- SUBUNIT: Heterodimer of alpha and beta subunits.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 DR HSP; P23806; IIXX.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR003990; Pancreatis_ac.
 DR Pfam; PF00059; lectin_c; 1.
 DR PRINTS; PR01504; PNCREATITSAP.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KW Lectin.
 FT DISULFID 4 15 BY SIMILARITY.
 FT DISULFID 31 127 BY SIMILARITY.
 FT DISULFID 102 119 BY SIMILARITY.
 FT DISULFID 81 81 INTERCHAIN (WITH C-75 IN BETA CHAIN) (BY
 SIMILARITY).
 SQ SEQUENCE 133 AA; 15803 MW; 8F11C2D0BDC70B16 CRC64;

Query Match 12.0%; Score 133.5; DB 1; Length 133;
 Best Local Similarity 29.1%; Pred. No. 3.8e-05;
 Matches 41; Conservative 21; Mismatches 48; Indels 31; Gaps 8;

QY 20 CVKVIYFHDTSRLNFEAKEACRR-DGQQLVSISSDEQKLIEXFIENLLPS---DGDF 75

Db 227 HTNPF--NTWIGL-----TSDSGKWKVDGTDYRHNKYKNWAVQPDNNHGHEJGG 274

QY 118 SEYCVVMYHQPSAPAGIGGPFYQWMDRCNKKNFICKYSDEKPAVPSREAGE 172

Db 275 SEDCVVEV--QPDG-----RWNDFLQLVYRWCE-----KERNATGE 309

RESULT 49

LEMI_HUMAN

AC P14151; P15023; STANDARD; PRT; 372 AA.

DT 01-JAN-1990 (Rel. 13, Created)

DT 01-FEB-1991 (Rel. 17, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE L-selectin precursor (Lymph node homing receptor) (leukocyte adhesion molecule-1) (LAM-1) (leukocyte surface antigen Leu-8) (TQ1) (gp90-MEL) (leukocyte-endothelial cell adhesion molecule 1) (LECAM1) (CD62L).

GN SELL OR LYAM1 OR LNHR.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Siegelman M.H., Weisman I.L.;

RT "Human homologue of mouse lymph node homing receptor: evolutionary conservation at tandem cell interaction domains."

RL Proc. Natl. Acad. Sci. U.S.A. 86:5562-5566(1989).

RN [2]

RP SEQUENCE FROM N.A.

RC Tissue=Tonsil;

RX MEDLINE=89310350; PubMed=2473155;

RA Tedder T.F., Isaacs C.M., Ernst T.J., Demetri G.D., Adler D.A., Distèche C.M.;

RT "Isolation and chromosomal localization of cDNAs encoding a novel human lymphocyte cell surface molecule, LAM-1. Homology with the mouse lymphocyte homing receptor and other human adhesion proteins."

RL J. Exp. Med. 170:123-133(1989).

RN [3]

RP SEQUENCE FROM N.A.

RX MEDLINE=9004046; PubMed=2509939;

RA Camerlini D., James S.P., Stamenkovic I., Seed B.;

RT "Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing receptor."

RL Nature 342:78-82(1989).

RN [4]

RP SEQUENCE FROM N.A.

RX MEDLINE=89308881; PubMed=2863382;

RA Bowen B.R., Nguyen T., Lasky L.A.;

RT "Characterization of a human homologue of the murine peripheral lymph node homing receptor."

RL J. Cell Biol. 109:421-427(1989).

RN [5]

RP SEQUENCE FROM N.A.

RX MEDLINE=90243637; PubMed=1692315;

RA Ord D.C., Ernst T.J., Zhou L.J., Rambaldi A., Spertini O., Griffin J., Tedder T.F.;

RT "Structure of the gene encoding the human leukocyte adhesion molecule-1 (TQ1, Leu-8) of lymphocytes and neutrophils."

RL J. Biol. Chem. 265:7760-7767(1990).

RN [6]

RP SEQUENCE FROM N.A.

RA Rieder M.J., Carrington D.P., da Ponte S.H., Hastings N.C., Ahearn M.O., Kuidanek S.A., Rajkumar N., Toth E.J., Yi Q., Nickerson D.A.;

RL Submitted (FEB-2003) to the EMBL/GenBank/DBJ databases.

RN [7]

RP 3D-STRUCTURE MODELING.

RX MEDLINE=96074584; PubMed=7488174;

RA Bajorath J., Aruffo A.;

RT "A template for generation and comparison of three-dimensional

RT selectin models.";

RL Biochem. Biophys. Res. Commun. 216:1018-1023(1995).

CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes.

CC -!- SUBCELLULAR LOCATION: Type I membrane protein.

CC -!- SIMILARITY: Belongs to the selectin/LECAM family.

CC -!- SIMILARITY: Contains 1 C-type lectin family domain.

CC -!- SIMILARITY: Contains 1 EGF-like domain.

CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.

CC -!- DATABASE: NAME=PROW; NOTE=CD guide CD62L entry; WWW="http://www.ncbi.nlm.nih.gov/prov/cd/cd62l.htm".

CC -----

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).

CC -----

DR EMBL; M25280; AAC33053.1; -.

DR EMBL; X16150; CAA34275.1; -.

DR EMBL; X17519; CAB43536.1; -.

DR EMBL; X17519; CAB43537.1; ALT SEQ.

DR EMBL; X16070; CAA34203.1; ALT_SEQ.

DR EMBL; M32414; AAB60700.1; -.

DR EMBL; M32408; AAB60700.1; JOINED.

DR EMBL; M32407; AAB60700.1; JOINED.

DR EMBL; M32408; AAB60700.1; JOINED.

DR EMBL; M32409; AAB60700.1; JOINED.

DR EMBL; M32410; AAB60700.1; JOINED.

DR EMBL; M32411; AAB60700.1; JOINED.

DR EMBL; M32412; AAB60700.1; JOINED.

DR EMBL; M32413; AAB60700.1; JOINED.

DR EMBL; X233976; AAO48272.1; -.

DR PDB; 1KJB; 03-APR-96.

DR GlycoSuiteDB; P14151; -.

DR Genew; HGNC:10720; SELL.

DR MIM; 153240; -.

DR GO; GO:0005887; C:integral to plasma membrane; TAS.

DR GO; GO:0008337; F:selectin; TAS.

DR GO; GO:0007155; P:cell adhesion; TAS.

DR InterPro; IPR006209; EGF like.

DR InterPro; IPR006210; IEGF.

DR InterPro; IPR001304; Lectin C.

DR InterPro; IPR002396; Selectin.

DR InterPro; IPR000436; Sushi_SCR_CCP.

DR Pfam; PF00008; EGF; 1.

DR Pfam; PF00059; lectin_c; 1.

DR Pfam; PF00084; sushi; 2.

DR PRINTS; PR00343; SELECTIN.

DR SMART; SM00032; CCP; 2.

DR SMART; SM00034; CLECT; 1.

DR SMART; SM00181; EGF; 1.

DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.

DR PROSITE; PS00041; C-TYPE LECTIN_2; 1.

DR PROSITE; PS00022; EGF_1; 1.

DR PROSITE; PS01186; EGF_2; 1.

DR PROSITE; PS00026; EGF_3; 1.

KW Cell adhesion; Transmembrane; Glycoprotein; EGF-like domain; Lectin;

KW Selectin; Signal; Sushi; Repeat; 3D-structure.

FT SIGNAL 1 28

FT PROPEP 29 38

FT CHAIN 39 372

FT DOMAIN 39 332

FT TRANSMEM 333 355

FT DOMAIN 356 372

FT DOMAIN 355 155

FT DOMAIN 156 192

FT DOMAIN 196 255

FT DOMAIN 258 317

FT DISULFID 57 155

FT L-SELECTIN.

FT EXTRACELLULAR (POTENTIAL).

FT POTENTIAL.

FT CYTOPLASMIC (POTENTIAL).

FT C-TYPE LECTIN (SHORT FORM).

FT EGF-LIKE.

FT SUSHI 1.

FT SUSHI 2.

FT BY SIMILARITY.

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:36:28 ; Search time 32 Seconds
(without alignments)
332.342 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227

Perfect score: 1115

Sequence: 1 ATGRLSQPVCRGTORPC.....BEDAKTFKESREALNLAY 206

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 50 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/prodata/2/iaa/5A_COMB.pep:*
- 2: /cgn2_6/prodata/2/iaa/5B_COMB.pep:*
- 3: /cgn2_6/prodata/2/iaa/6A_COMB.pep:*
- 4: /cgn2_6/prodata/2/iaa/6B_COMB.pep:*
- 5: /cgn2_6/prodata/2/iaa/PCTUS_COMB.pep:*
- 6: /cgn2_6/prodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1105	99.1	374	4	US-09-489-847-166 Sequence 166, App
2	1101	98.7	382	4	US-09-907-794A-137 Sequence 137, App
3	1101	98.7	382	4	US-09-905-125A-137 Sequence 137, App
4	1101	98.7	382	4	US-09-902-775A-137 Sequence 137, App
5	939.5	84.3	260	4	US-09-638-203-3 Sequence 3, Appli
6	561.5	50.4	273	4	US-09-638-203-2 Sequence 2, Appli
7	240	21.5	81	4	US-09-489-847-325 Sequence 325, App
8	240	21.5	82	4	US-09-489-847-234 Sequence 234, App
9	240	21.5	115	4	US-09-489-847-324 Sequence 324, App
10	182	16.3	1456	4	US-09-976-594-168 Sequence 168, App
11	178.5	16.0	1455	3	US-08-840-062-5 Sequence 5, Appli
12	176.5	15.8	1479	3	US-08-840-062-4 Sequence 4, Appli
13	174	15.6	1257	1	US-08-340-428B-19 Sequence 49, Appl
14	174	15.6	2409	6	5180808-2 Patent No. 5180808
15	170.5	15.3	1479	3	US-08-840-062-2 Sequence 2, Appli
16	152	13.6	912	5	PT-US95-03747-2 Sequence 2, Appli
17	151	13.5	197	4	US-09-602-877A-99 Sequence 99, Appl
18	149.5	13.4	455	4	US-09-866-028-50 Sequence 50, Appl
19	149	13.4	174	1	US-07-641-971B-1 Sequence 1, Appli
20	149	13.4	174	1	US-07-781-248A-1 Sequence 1, Appli
21	149	13.4	320	1	US-08-365-103B-10 Sequence 10, Appl
22	149	13.4	321	1	US-08-365-103B-8 Sequence 8, Appli
23	148.5	13.3	652	2	US-08-751-305-2 Sequence 2, Appli
24	144.5	13.0	404	4	US-09-517-605-2 Sequence 2, Appli
25	143.5	12.9	372	2	US-08-513-278-4 Sequence 4, Appli
26	143.5	12.9	372	6	5514582-4 Patent No. 5514582
27	142	12.7	1487	3	US-08-840-062-7 Sequence 7, Appli

28	141.5	12.7	125	3	US-08-722-126A-7	Sequence 7, Appli
29	141.5	12.7	125	5	PCT-US95-04258-7	Sequence 7, Appli
30	141.5	12.7	287	1	US-08-365-103B-4	Sequence 4, Appli
31	141.5	12.7	300	1	US-08-365-103B-6	Sequence 6, Appli
32	141.5	12.7	327	1	US-08-365-103B-2	Sequence 2, Appli
33	138.5	12.4	117	6	5514582-7	Patent No. 5514582
34	138.5	12.4	119	1	US-08-340-539A-12	Sequence 12, Appl
35	137.5	12.3	110	6	5514582-12	Patent No. 5514582
36	137.5	12.3	123	6	5514582-19	Patent No. 5514582
37	137.5	12.3	492	4	US-09-724-864-39	Sequence 39, Appli
38	135	12.1	238	3	US-09-111-470-8	Sequence 8, Appli
39	134.5	12.1	128	4	US-09-535-521-8	Sequence 8, Appli
40	134.5	12.1	139	4	US-09-535-521-11	Sequence 11, Appl
41	134.5	12.1	141	4	US-09-535-521-14	Sequence 14, Appl
42	134.5	12.1	187	4	US-09-535-521-17	Sequence 17, Appl
43	134.5	12.1	208	4	US-09-535-521-20	Sequence 20, Appl
44	134.5	12.1	292	4	US-09-535-521-2	Sequence 2, Appli
45	134.5	12.1	292	4	US-09-535-521-5	Sequence 5, Appli
46	133.5	12.0	110	6	5514582-9	Patent No. 5514582
47	133.5	12.0	119	1	US-08-340-539A-13	Sequence 13, Appl
48	133.5	12.0	133	1	US-07-893-929A-9	Sequence 9, Appli
49	133.5	12.0	133	5	PCT-US92-1034A-9	Sequence 9, Appli
50	133.5	12.0	287	3	US-09-111-470-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-09-489-847-166
; Sequence 166, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-489-847-166

Query Match 99.1%; Score 1105; DB 4; Length 374;
Best Local Similarity 99.0%; Pred.No.1.9e-107;
Matches 204; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Oy 1 ATGRLSQPVCRGTORPCVKIYFHDTSRRINFEEAKACRRDGGQLVSISEDEQKL 60
Db 22 ATGRLSQPVCRGTORPCVKIYFHDTSRRINFEEAKACRRDGGQLVSISEDEQKL 81

QY 61 IEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEV 120
DB 82 IEXFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEV 141
QY 121 CVMVHQPAPAGIGPYMFQWDDRCNKNKFNICKYDEKPAVPSREAGEETELTPV 180
DB 142 CVMVHQPAPAGIGPYMFQWDDRCNKNKFNICKYDEKPAVPSREAGEETELTPV 201
QY 181 LPEETOEDAKTKFESREAAALNLAY 206
DB 202 LPEETOEDAKTKFESREAAALNLAY 227

RESULT 2

US-09-907-794A-137
; Sequence 137, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-794A-137
Query Match 98.7%; Score 1101; DB 4; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-107;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGOLVSI 52
DB 22 ATGRLLSASDLDRGGQPCVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGOLVSI 81
QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD 112
DB 82 ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD 141
QY 113 EPSCGSEVCVMVHQPAPAGIGPYMFQWDDRCNKNKFNICKYDEKPAVPSREAGE 172
DB 142 EPSCGSEVCVMVHQPAPAGIGPYMFQWDDRCNKNKFNICKYDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKTKFESREAAALNLAY 206
DB 202 ETELTTPVLPEETOEDAKTKFESREAAALNLAY 235

RESULT 3

US-09-905-125A-137
; Sequence 137, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12

; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-137

Query Match 98.7%; Score 1101; DB 4; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-107;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCVKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVKVIYFHDTSRLNFEAKACRRDGGQLVSI 81

QY 53 ESEDEQKLEKIEIENLLPSDGFWTGLRRREKQSNSTACQDLYAWTDGSIQFRNWXVD 112
DB 82 ESEDEQKLEKIEIENLLPSDGFWTGLRRREKQSNSTACQDLYAWTDGSIQFRNWXVD 141

QY 113 EPCSGSEVCVMYHOPSPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREARGE 172
DB 142 EPCSGSEVCVMYHOPSPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREARGE 201

QY 173 ETELTPVLPEETQBEDAKKTFKESREAAINLAY 206
DB 202 ETELTPVLPEETQBEDAKKTFKESREAAINLAY 235

RESULT 4
US-09-902-775A-137
; Sequence 137, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30995
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-137

Query Match 98.7%; Score 1101; DB 4; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-107;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCVKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVKVIYFHDTSRLNFEAKACRRDGGQLVSI 81

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QY 53 ESEDEQKLEKTIENLLPSDGFHWIGLRREBEKQSNSTACQDLYAWTDGSIQSFNMYVD 112
DB 82 ESEDEQKLEKTIENLLPSDGFHWIGLRREBEKQSNSTACQDLYAWTDGSIQSFNMYVD 141
QY 113 EPCSGEVCMVYHOPSAAGIGGPMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
DB 142 EPCSGEVCMVYHOPSAAGIGGPMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTPVLPSTOEDAKKTFKESREALNLAY 206
DB 202 ETELTPVLPSTOEDAKKTFKESREALNLAY 235

RESULT 5
US-09-638-203-3
; Sequence 3, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
; TITLE OF INVENTION: ANTIGEN EXPRESSED IN HUMAN PROSTATE CANCER AND USES THEREOF
; FILE REFERENCE: 129.200SUI
; CURRENT APPLICATION NUMBER: US/09/638,203
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-09-638-203-3

Query Match      84.3%; Score 939.5; DB 4; Length 260;
Best Local Similarity 85.8%; Pred. No. 2.5e-90;
Matches 175; Conservative 9; Mismatches 19; Indels 1; Gaps 1;

QY 4 RLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQGVLSIESDEQKLEK 63
DB 1 RLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQGVLSIESDEQKLEK 60
QY 64 FIENLLPSDGFHWIGLRREBEKQSNSTACQDLYAWTDGSIQSFNMYVDPSGSEVCV 123
DB 61 FIENLLPSDGFHWIGLRREBEKQSNSTACQDLYAWTDGSIQSFNMYVDPSGSEVCV 120
QY 124 MYHQSAPAGIGGPMFQWDDRCNMKNFICKYSDEKPA-VPSREAGEETELTPVLP 182
DB 121 MYHQSAPAGIGGPMFQWDDRCNMKNFICKYSDEKPA-VPSREAGEETELTPVLP 180
QY 183 ETEQEDAKKTFKESREALNLAY 206
DB 181 ETEQEDAKKTFKESREALNLAY 204

RESULT 6
US-09-638-203-2
; Sequence 2, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
; TITLE OF INVENTION: ANTIGEN EXPRESSED IN HUMAN PROSTATE CANCER AND USES THEREOF
; FILE REFERENCE: 129.200SUI
; CURRENT APPLICATION NUMBER: US/09/638,203
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935

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; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-638-203-2

Query Match      50.4%; Score 561.5; DB 4; Length 273;
Best Local Similarity 60.1%; Pred. No. 1e-50;
Matches 101; Conservative 25; Mismatches 35; Indels 7; Gaps 3;

QY 4 RLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQGVLSIESDEQKLEK 63
DB 23 RVVSGQKVCFADEFKFCYKWAYFHLSRVSFQEARLACESEGGVLLSLENAEQKLES 82
QY 64 FIENLLP-----SDGDFWIGLRREBEKQSNSTACQDLYAWTDGSIQSFNMYVDPSGCS 118
DB 83 MLQNLTKPGTGISDGFHWIGLRNGDGT-SGACPDLYQWSDGNSQYRNWYTDPSGCS 141
QY 119 EVCVMYHOPSAAGIGGPMFQWDDRCNMKNFICKYSDE-KPAVP 165
DB 142 EVCVMYHOPSAAGIGGPMFQWDDRCNMKNFICKYSDE-KPAVP 189

RESULT 7
US-09-489-847-325
; Sequence 325, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 325
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-325

Query Match      21.5%; Score 240; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 9.1e-18;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRR 44
DB 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRR 65

RESULT 8
US-09-489-847-234
; Sequence 234, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1

```


; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1999-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 234
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (82)
; OTHER INFORMATION: Xaa equals stop translation
US-09-489-847-234

Query Match 21.5%; Score 240; DB 4; Length 82;
Best Local Similarity 100.0%; Pred. No. 9.3e-18;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLSGQVCGGTCRQPCVKIYFHDTSRRLNFEAKEACRR 44
DB 22 ATGRLSGQVCGGTCRQPCVKIYFHDTSRRLNFEAKEACRR 65

RESULT 9
US-09-489-847-324
; Sequence 324, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 324
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-324

Query Match 21.5%; Score 240; DB 4; Length 115;
Best Local Similarity 100.0%; Pred. No. 1.5e-17;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLSGQVCGGTCRQPCVKIYFHDTSRRLNFEAKEACRR 44
DB 56 ATGRLSGQVCGGTCRQPCVKIYFHDTSRRLNFEAKEACRR 99

RESULT 10
US-09-976-594-168
; Sequence 168, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 188
; LENGTH: 1456
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1674368CD1
US-09-976-594-168

Query Match 16.3%; Score 182; DB 4; Length 1456;
Best Local Similarity 25.5%; Pred. No. 5.5e-10;
Matches 52; Conservative 37; Mismatches 61; Indels 54; Gaps 8;
QY 21 YKVIYFHDTSRRLNFEAKEACRRDGGQLVSTESDEQKLEKFIENLLPSDGFWIGLR 80
DB 807 YKQYQYFSEKETMDNARAFCKRNFGLVLSQSEKXFLWKYV-NRNDASAYFIGLL 865
QY 81 RREEKQSNSTACQDLYAWTDGSIQPRNWKYVDEPSCGS--EVCVVMYHOPSPAPAGIGPY 138
DB 866 ISLDKK-----FAWMDGSKVDYVSWATGEPNFADEDNCVTWY-----SNSGF---- 908
QY 139 MFWNDDRCNMKNFKCYSDK-----PAVPSREAREGETELTTPVLPEETOE----- 187
DB 909 ---WINDINGYFNAPICQRHNSINATVMP-----TMPSPGSGCKEHNFYSN 954
QY 188 -----EDAKTFKESREAL 202
DB 955 KCFKIFGMEERKNWQEARAKI 978

RESULT 11
US-08-840-062-5
; Sequence 5, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.


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QY 77 IGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVDEPS-----CGSEVVCVMYHOPSAPAG 133
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1479 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; US-08-840-062-2

Db 1086 IGLNDRITVERD-----FQWTDNTIGLYENREKQPDNPFAGGDCVVMVAHENG--- 1134

QY 134 IGGPYMFQWDDRCNMKNPFICK 156
; US-08-840-062-2

Db 1135 -----RWNDVPCNLYPVCK 1150

Query Match 15.6%; Score 174; DB 6; Length 2409;
Best Local Similarity 28.5%; Pred. No. 7.5e-09;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

RESULT 14
5180808-2
; APPLICANT: RUCSLAHTI, ERKKI I.
; TITLE OF INVENTION: VERSICAN CORE PROTEIN, NUCLEIC ACID
; SEQUENCES ENCODING THE SAME, NUCLEIC ACID PROBES, ANTI-VERSICAN
; ANTIBODIES, AND METHODS OF DETECTING THE SAME
; NUMBER OF SEQUENCES: 4
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/441,179
; FILING DATE: 27-NOV-1989
; SEQ ID NO: 2:
; LENGTH: 2409
5180808-2

QY 17 QPCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESDEQKLIKFIENLPSDGF- 75
; GENERAL INFORMATION:
; APPLICANT: LA JOLLA CANCER RESEARCH FOUNDATION
; TITLE OF INVENTION: Brevican, A Glial Cell Proteoglycan
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cambelli and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/03747
; FILING DATE: 27-MAR-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Imbra, Richard J.
; REGISTRATION NUMBER: 37,643
; REFERENCE/DOCKET NUMBER: PP-LJ 1453
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 912 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US95-03747-2

Db 2190 QQQCYK--YF---AHRRTWDAERCRLLQGAHLTSLSHRQMFVNRV-----GHDYQ 2237

QY 76 WIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVDEP-----SCGSEVVCVMYHOPSAP 131
; US-08-840-062-2

Db 2238 WIGL-----NDKMFEDHFRWTDGTLQYENRPNQDFSFAGDCVVIWHENG-- 2287

QY 132 AGIGPYMFQWDDRCNMKNPFICKYS-----DEKFAVPSREAEGE 172
; US-08-840-062-2

Db 2288 -----QWNVPCNVHLTVTKKGTVCAGQPPVVENAKTFGK 2323

RESULT 15
US-08-840-062-2
; Sequence 2, Application US/08840062
; Patent No. 611797
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: P1019R1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3216
; TELEFAX: 415/952-3881
```

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TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1479 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; US-08-840-062-2

Query Match 15.3%; Score 170.5; DB 3; Length 1479;
Best Local Similarity 31.4%; Pred. No. 9e-09;
Matches 48; Conservative 22; Mismatches 48; Indels 35; Gaps 7;

QY 7 SGQVCRGGTQPCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESDEQKLIKFIENLPSDGF- 66
; US-08-840-062-2

Db 384 SWQFF-----QGCYRL-----QAERKSWQESKRACLRGGLLSHSMVALEFFITKQIK 433

QY 67 NLLPSDGFWMIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVDEPS---CGSEVVCV 123
; US-08-840-062-2

Db 434 QEVE---ELWIGL-----NDLKLQMFNFEWSDGSLVSFTWHHPPEPNFRDSDLCV 482

QY 124 MYHOPSAPAGIGPYMFQWDDRCNMKNPFICK 156
; US-08-840-062-2

Db 483 IW-----GPEG-----RWNDSPCNQSLPSICK 504

RESULT 16
PCT-US95-03747-2
; Sequence 2, Application PC/TUS9503747
; GENERAL INFORMATION:
; APPLICANT: LA JOLLA CANCER RESEARCH FOUNDATION
; TITLE OF INVENTION: Brevican, A Glial Cell Proteoglycan
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cambelli and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/03747
; FILING DATE: 27-MAR-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Imbra, Richard J.
; REGISTRATION NUMBER: 37,643
; REFERENCE/DOCKET NUMBER: PP-LJ 1453
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 912 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US95-03747-2

Query Match 13.6%; Score 152; DB 5; Length 912;
Best Local Similarity 28.8%; Pred. No. 4e-07;
Matches 47; Conservative 17; Mismatches 61; Indels 38; Gaps 8;

QY 17 QPCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESDEQKLIKFIENLPSDGF 76
; US-08-840-062-2

Db 697 QGACYK-----HFSARR-SWEEAKKRMVGAHLASISTPEEQFINNRYEQ-----W 745

QY 77 IGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVDEPS---CGSEVVCVMYHOPSAP 132
; US-08-840-062-2
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Db 746 IGL-----NDRITGDFLMSDGVPLLYENNRQDPSYFSLGNCVVMVHDDQG---- 794
QY 133 GIGGPMFQWDDRCNMKNFKICKYS-----DEKPAVPSREAE 171
Db 795 -----QMSDVPCHYLSYICKWGLVSCGPPPELPLAEVFG 829

RESULT 17
US-09-602-877A-99
; Sequence 99, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602,877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 99
; LENGTH: 197
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-602-877A-99

Query Match 13.5%; Score 151; DB 4; Length 197;
Best Local Similarity 25.0%; Pred. No. 6.4e-08;
Matches 38; Conservative 26; Mismatches 64; Indels 24; Gaps 4;

QY 9 QVCRGGTQ--RPGYKVIYFHTSRLNFEAKACRRDGGOLVISEDEQKLEKIE 66
Db 65 QVCLRGTKVHKCKYLA-----SEGLKHFHEANEDCISKGGILVTPRNSDINALQDYGK 119
QY 67 NLLPSDGDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCMVYH 126
Db 120 RSLPGVDFWLGJ-----NDMVTGKFDVNGIAISFLNWDRAQNGKRENCVLFS 171
QY 127 QPSAPAGIGGPMFQWDDRCNMKNFKICKYS 158
Db 172 QSA-----QGWKSDAEACRSKRYICEFT 194

RESULT 18
US-09-866-028-50
; Sequence 50, Application US/09866028
; Patent No. 6642360
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 50
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-50

Query Match 13.4%; Score 149.5; DB 4; Length 455;
Best Local Similarity 25.8%; Pred. No. 2.9e-07;
Matches 45; Conservative 25; Mismatches 61; Indels 45; Gaps 8;

QY 14 GGTQPCYKVIY--FHDTSRRLLN-----PEEAKACRRDGGOLVISEDEQK 59
Db 287 GGAQ--CATKVHPPFHTCDLRIDGCFMVSSEADTYRARMKQKGGVLAQIKSQKVD 344
QY 60 LIKFIENLLP-----SDGD-----FWIGLRREKQSNSTACQDLYAWTDGSIQFRNYY 110
Db 345 ILAFYLGRLTTNEVTDSPETRNFWIGLTYTAK-----DSFRWATGHEQAFSPA 396
QY 111 VDBPSCGSEVCMVYHQPAPAGIG-----GPMFQWDDRCNMKNFKICKYSDE 160
Db 397 FGQPDHGLVWL-----SAAVGFNCVLEQLQASAAFNWDQCKTRNYICQPAQE 446

RESULT 19
US-07-641-971B-1
; Sequence 1, Application US/07641971B
; Patent No. 5238706
; GENERAL INFORMATION:
; APPLICANT: Debre, Patrice
; APPLICANT: Mossalayi, Mohammed D
; TITLE OF INVENTION: A PHARMACEUTICAL PREPARATION FOR THE
; TITLE OF INVENTION: MATURATION OF PROTHYMOCYTES
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Irving M. Fishman, CIBA-GEIGY Corporation
; STREET: 556 Morris Avenue
; CITY: Summit
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07901
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/641,971B
; FILING DATE: 19910116
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 90016254
; FILING DATE: 24-JAN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Fishman, Irving M
; REGISTRATION NUMBER: 30258
; REFERENCE/DOCKET NUMBER: 4-17921/+/DEB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-277-4832
; TELEFAX: 908-277-4306
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 174 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; CELL TYPE: Human B. Cells
; CELL LINE: CHO cells transformed with pCAL8-BF-ND
US-07-641-971B-1
```

QY	17	ORPCYKVIYEHDFTSRELNFEEAKEARRDGGOLVIESDEQKLEFIENLLSDGDFW	76
Db	24	QRKCY---YFGKGTQ--WTHARYACDDMEGQLVSIHSPEDQLTKH----	ASHTGSW 73
QY	77	IGLRREEKOSNSTACQDIYAWTDGSIQFRNRYVDEPSCGS--EVCVWVHQPSAPAGI	134
Db	74	IGLRNLDLKE-----FIWVGSHVDYSNWAPEPTSRSQGEDCYMM-----	RGS 118
QY	135	GGPYMFOWNDRCNMK--NNFICKYSDEKPAV--PSRAEAGE-----ETELTPV	180
Db	119	G-----RWNDAPCDRLKGAWC-----DRLATCTPASEGSAESMGPSDRPDPDGLTTPS	169
QY	181	LP	182
Db	170	AP	171

RESULT 21
 US-08-365-103B-10
 ; Sequence 10, Application US/08365103B
 ; Patent No. 5766943
 ; GENERAL INFORMATION:
 ; APPLICANT: Lynch, Richard G.
 ; APPLICANT: Nunsz, Raphael D.
 ; APPLICANT: Yodoi, Jungi
 ; TITLE OF INVENTION: DNA Sequences for Soluble Forms of CD23
 ; TITLE OF INVENTION: and Methods of Use for Same
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
 ; STREET: 801 Grand Ave. Suite 3200
 ; CITY: Des Moines
 ; STATE: Iowa
 ; COUNTRY: United States
 ; ZIP: 50309
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/365,103B
 ; FILING DATE: 28-DEC-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Nebel, Heidi S.
 ; REGISTRATION NUMBER: 37,719
 ; REFERENCE/DOCKET NUMBER: Uirf N5-24
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (515) 288-3667
 ; TELEFAX: (515) 288-1338
 ; INFORMATION FOR SEQ ID NO: 10:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 320 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-365-103B-10

```

Query Match      13.4%; Score 149; DB 1; Length 320;
Best Local Similarity 30.2%; Pred. No. 2e-07;
Matches 55; Conservative 20; Mismatches 57; Indels 50; Gaps 11
QY 17 QRPCKVIYFHDGRRINLFEEAKEARRDGGQGVLSIESEDEQKLEKTIENLLPSDGF 76
      ||||| :|: :|: ||||| :|: :|: :|: :|: :|: :|: :|: :|: :|: :|:
Db 170 QRKCY--YFGKGTQ--WYHARYACDDMEGQVLSIHSPEDQFTKH-----ASHTGSW 219
      ||||| :|: :|: ||||| :|: :|: :|: :|: :|: :|: :|: :|: :|: :|:
QY 77 TGLRRBEKQSNACQDLAWTDGTSISQPRNNVYDPESCGS--EVCVVMYHQPAPAGI 134
      ||||| :|: :|: ||||| :|: :|: :|: :|: :|: :|: :|: :|: :|: :|:
Db 220 TGLRLNLDLKG-----FIWVDGSHVDYSNAPGEPTSRSGQEDCVNM-----RGS 264
      ||||| :|: :|: ||||| :|: :|: :|: :|: :|: :|: :|: :|: :|: :|:
QY 135 GGPYFQWONDRCNMK--NNFICKYSDEKPAV-----PSRAEAGE-----ETELTTPV 180
      ||||| :|: :|: ||||| :|: :|: :|: :|: :|: :|: :|: :|: :|: :|:

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Db	220	IGLRNLDLKE-----FIWGDGSHVDYSNWA	PGETSRSGEDCVNM-----RGS	264
Qv	135	GGPYWFOQNDPRCNMK--NFFICKYSDKPAV---	PSRAEAGE-----ETELTPPV	180

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Db 265 G-----RWDAFCDKRLGAWC-----DRLATCTPPASGSAESMGDPDRPDGRLPTPS 315
QY 181 LP 182
Db 316 AP 317

RESULT 22
US-08-365-103B-8
; Sequence 8, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G
; APPLICANT: Nunez, Raphael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Proms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
; STREET: 801 Grand Ave. Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,103B
; FILING DATE: 28-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Nebel, Heidi S.
; REGISTRATION NUMBER: 37,719
; REFERENCE/DOCKET NUMBER: Uilf N5-24
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515) 288-3667
; TELEFAX: (515) 288-1338
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 321 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-365-103B-8

Query Match 13.4%; Score 149; DB 1; Length 321;
Best Local Similarity 30.2%; Pred. No. 2e-07;
Matches 55; Conservative 20; Mismatches 57; Indels 50; Gaps 11;

QY 17 QSPCKVVIYFHTSRRLNFEAEKACRRDGGQGVLSIESDEQKLEKFIENLLPSDGF 76
Db 171 QKCY---YFGKTKQ--WVHARYACDDMEGQVLSIHSPEDFTKH-----ASHTGSW 220

QY 77 IGLRREERKQSNSTACQDIYAWTDSISQFRWYVDPEPSCGS--EVCVVMYHQPSAPAGI 134
Db 221 IGLRNLDKGE-----FIWVDSHVDYSNWPCEPTSRSGSDCVWM-----RGS 265

QY 135 GGPYMFQWNRDRCNMK--NNFICKYDKEPAV---PSRAEGE-----ETELITPV 180
Db 266 G-----RWDAFCDKRLGAWC-----DRLATCTPPASGSAESMGDPDRPDGRLPTPS 316

QY 181 LP 182
Db 317 AP 318

RESULT 23
US-08-751-305-2
; Sequence 2, Application US/08751305
; Patent No. 5965439
; GENERAL INFORMATION:
; APPLICANT: Tenner et al., Andrea J.
; TITLE OF INVENTION: HOST DEFENSE ENHANCEMENT
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/751,305
; FILING DATE: 18-NOV-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell, Jr., John R.
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: 07306/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 652 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-751-305-2

Query Match 13.3%; Score 148.5; DB 2; Length 652;
Best Local Similarity 24.4%; Pred. No. 5.9e-07;
Matches 50; Conservative 37; Mismatches 75; Indels 43; Gaps 9;

QY 5 LLSGQP-----VCGGTQRCYKVIYFHTSRRLNFEAEKACRRDGGQVLSIE 53
Db 13 LLITQPGAGTGADTEAVCVG---TACYTA-----HSGKLISAAEQNHQNGNLTATVK 64

QY 54 SEDEQKLEKFIENLLPSD-----GDFWIGLRREERKQSNSTACQDIYAWT--DGSISQ 105
Db 65 SKEEAHQVQVLAQLLRRAALTARMSKFWIGLQREKGLDPSLPLKGFVWVGGEDTP 124

QY 106 FRWYVD-EPSGSEVGVVM---YHQPAPAGIGGYPYMFQWNRDRCNMKN-----PI 154
Db 125 YSNWHLKRLNSCTSKRCVSLLDLSQLPLFNRLP-----KWSEGPCGSPGSPGNIIEGV 179

QY 155 CKYSDEKPAVPSREAEGETELTP 179
Db 180 CKFSFKMCEPFLALGGGVYTYTP 204

RESULT 24
US-09-517-605-2
; Sequence 2, Application US/09517605
; Patent No. 6391567
; GENERAL INFORMATION:
; APPLICANT: Littman, Dan R.
; APPLICANT: Kwon, Douglas S.
; APPLICANT: van Kooyk, Yvette
; APPLICANT: Geijtenbeck, Theo
; TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY INTO
; FILE OF INVENTION: CELLS
; FILE REFERENCE: 1049-1-017
; CURRENT APPLICATION NUMBER: US/09/517,605
; CURRENT FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 17
```

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-517-605-2

Query Match      13.0%; Score 144.5; DB 4; Length 404;
Best Local Similarity 29.7%; Pred. No. 8.1e-07;
Matches 47; Conservative 23; Mismatches 47; Indels 41; Gaps 10;

QY 25 YFHTSRRLNFEAKEACRRDGGQLVSISEDEQKLIKFIENLLPDDGDFWIGLRRREE 84
Db 268 YFMNSQR-NWHDSTITACKVEGAQLVVIKSAEQNFLQLQSSR---SNRFTWGLSLDNQ 323
QY 85 KQSNSTACQDLYAWTDSG--ISQFN-WYDEP-SCGSEVCVMVYHQPSPAPAGIGGYPF 140
Db 324 -----EGTWQWVDGSGFLFLFSPKQYWRNGEPNNVGEEDCAEF-----SGNG----- 363

QY 141 QWDDRCNMKNFICKYS-----DEK-----PAVPS 166
Db 364 -WDDKCNLAKFWICKSAACSRDEEQFLSPAPATPN 400

RESULT 25
US-08-513-278-4
; Sequence 4, Application US/08513278
; Patent No. 5840844
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: STACHELL, SCOTT E.
; APPLICANT: ROSEN, STEVEN D.
; APPLICANT: SINGER, MARK S.
; APPLICANT: YEDNOCK, TED A.
; TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patip (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/513,278
; FILING DATE: 10-AUG-1995
; CLASSIFICATION: 5530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/059027
; FILING DATE: 06-MAY-1993
; APPLICATION NUMBER: 07/786149
; FILING DATE: 31-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/315015
; FILING DATE: 23-FEB-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: 565D1C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3216
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 372 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

```

```

US-08-513-278-4

Query Match      12.9%; Score 143.5; DB 2; Length 372;
Best Local Similarity 26.5%; Pred. No. 9.2e-07;
Matches 41; Conservative 37; Mismatches 50; Indels 27; Gaps 8;

QY 26 FHTSRRLNFEAKEACRRDGGQLVSISEDEQKLIKFIENLLP-SDGDFWIGLRRREE 84
Db 41 YHYSEKPMWENARKFKQNYTDLVAIQNRE---IE-YLENTLPKSPYYIWIGIRK--- 93
QY 85 KQSNSTACQDLYAW--TDGSI-S-QFNWYVDPS--CGSEVCVMVYHQPSPAPAGIGGYPM 139
Db 94 -----IGKWTWVGNTKLTKEAENWGAGFPNNKSKEDCVIYIKRERDSG----- 140
QY 140 FQWDDRCNMKNFICKYSDEKPAVPSREAEGET 174
Db 141 -KWDDACHKKAALCYTASCQPGSCNGRGECVET 174

RESULT 26
5514582-4
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO:4:
; LENGTH: 372
5514582-4

Query Match      12.9%; Score 143.5; DB 6; Length 372;
Best Local Similarity 26.5%; Pred. No. 9.2e-07;
Matches 41; Conservative 37; Mismatches 50; Indels 27; Gaps 8;

QY 26 FHTSRRLNFEAKEACRRDGGQLVSISEDEQKLIKFIENLLP-SDGDFWIGLRRREE 84
Db 41 YHYSEKPMWENARKFKQNYTDLVAIQNRE---IE-YLENTLPKSPYYIWIGIRK--- 93
QY 85 KQSNSTACQDLYAW--TDGSI-S-QFNWYVDPS--CGSEVCVMVYHQPSPAPAGIGGYPM 139
Db 94 -----IGKWTWVGNTKLTKEAENWGAGFPNNKSKEDCVIYIKRERDSG----- 140
QY 140 FQWDDRCNMKNFICKYSDEKPAVPSREAEGET 174
Db 141 -KWDDACHKKAALCYTASCQPGSCNGRGECVET 174

RESULT 27
US-08-840-062-7
; Sequence 7, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California

```

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;
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: P1019R1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3216
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1487 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; US-08-840-062-7

Query Match 12.7%; Score 142; DB 3; Length 1487;
Best Local Similarity 26.5%; Pred. No. 8.7e-06;
Matches 40; Conservative 22; Mismatches 51; Indels 38; Gaps 6;

QY 13 RGSTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLYSIESDEQKLIKFIENLLPSD 72
Db 238 RUGSSRICIQ-----FNLLSLGNWQHSSCLMQGGALLSIADDEDFIRHLSKVVK-- 291

QY 73 GPFWIGLRREKQSNSTACQDLYAWTDGSIQFRNYYVD-----BPSGSEVCVVMY 125
Db 292 -EWVIGLNLDEKAG-----WQWSDGTPLSYLNWSQEIITPGPFVEHHGCTLEVV--- 339

QY 126 HPSAPAGIGGPMFQWDDRCNMKNFICK 156
Db 340 ---SA-----AWRSRDCESTLPYICK 357

RESULT 28
US-08-722-126A-7
; Sequence 7, Application US/08722126A
; Patent No. 6034227
; GENERAL INFORMATION:
; APPLICANT: PECHT, Israel
; APPLICANT: GUTHMANN, Marcelo D.
; APPLICANT: TAL, Michael
; TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL
; FUNCTION-ASSOCIATED ANTIGEN (NAFA)
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street N.W., Ste. 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/722,126A
; FILING DATE: 08-OCT-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04258
; FILING DATE: 06-APR-1995

```

```

;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 109257
; FILING DATE: 08-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: PECHT=1A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 628-5197
; TELEFAX: (202) 737-3528
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 125 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-722-126A-7

Query Match 12.7%; Score 141.5; DB 3; Length 125;
Best Local Similarity 31.8%; Pred. No. 3.4e-07;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

QY 17 QPCYKVIYFHDTSRLNFEAEKACRRDGGQLYSIESDEQKLIKFIENLLPSDGF 76
Db 9 QOKCY---YFGKSKQ--WIQARFACSDLQGRLLVSIHSQKEQDFLMQHI-----NKKDSW 58

QY 77 IGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDPSCG--SEVVCVMYHQPS 129
Db 59 IGL-----QDLNMEGEFVWSGSPVGYSNWNPGEFNNGGQGEDCVM----- 100

QY 130 APAGIGGPMFQWDDRCNMKNFICK 156
Db 101 --RSG-----QWDAFCRSYLDWVCE 121

RESULT 29
PCT-US95-04258-7
; Sequence 7, Application PC/TUS9504258
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL
; FUNCTION-ASSOCIATED ANTIGEN (NAFA)
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04258
; FILING DATE: 06-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 109257
; FILING DATE: 08-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: PECHT-1 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 125 amino acids

```



```
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-04258-7

Query Match      12.7%; Score 141.5; DB 5; Length 125;
Best Local Similarity 31.8%; Pred. No. 3.4e-07;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

QY 17 QRPCYKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
DB 9 QOKCY---YFGKSKQ--WQARFACSDLQGLRLVSIHSQKEDFLMQHI-----NKKDSW 58

QY 77 IGLRREEKQSNSTACQDL-----YAWTDGSIQFRNRYVDEPSCG--SEVCVMYHQPS 129
DB 59 IGL-----QDLNMEGEFVMSDGSFVGYSNNWPNFEPNNGQGEDCVMW----- 100

QY 130 APAGIGGPFQWNDRC-NMKNNFICK 156
DB 101 --RSGS-----QWDAFCRSYLDWVCE 121

US-08-365-103B-4
RESULT 30
US-08-365-103B-4
; Sequence 4, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G
; APPLICANT: Nunez, Raphael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Forms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Zarley, McKee, Thomte, Voorhees & Sease
; STREET: 801 Grand Ave. Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,103B
; FILING DATE: 28-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Nebel, Heidi S.
; REGISTRATION NUMBER: 37,719
; REFERENCE/DOCKET NUMBER: Uirf N5-24
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515) 288-3667
; TELEFAX: (515) 288-1338
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 287 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-365-103B-4

Query Match      12.7%; Score 141.5; DB 1; Length 287;
Best Local Similarity 31.8%; Pred. No. 1e-06;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

QY 17 QRPCYKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
DB 154 QOKCY---YFGKSKQ--WQARFACSDLQGLRLVSIHSQKEDFLMQHI-----NKKDSW 203

; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-04258-7

Query Match      12.7%; Score 141.5; DB 5; Length 125;
Best Local Similarity 31.8%; Pred. No. 3.4e-07;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

QY 17 QRPCYKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
DB 9 QOKCY---YFGKSKQ--WQARFACSDLQGLRLVSIHSQKEDFLMQHI-----NKKDSW 58

QY 77 IGLRREEKQSNSTACQDL-----YAWTDGSIQFRNRYVDEPSCG--SEVCVMYHQPS 129
DB 59 IGL-----QDLNMEGEFVMSDGSFVGYSNNWPNFEPNNGQGEDCVMW----- 100

QY 130 APAGIGGPFQWNDRC-NMKNNFICK 156
DB 101 --RSGS-----QWDAFCRSYLDWVCE 121

US-08-365-103B-4
RESULT 31
US-08-365-103B-6
; Sequence 6, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G
; APPLICANT: Nunez, Raphael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Forms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Zarley, McKee, Thomte, Voorhees & Sease
; STREET: 801 Grand Ave. Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,103B
; FILING DATE: 28-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Nebel, Heidi S.
; REGISTRATION NUMBER: 37,719
; REFERENCE/DOCKET NUMBER: Uirf N5-24
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515) 288-3667
; TELEFAX: (515) 288-1338
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 300 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-365-103B-6

Query Match      12.7%; Score 141.5; DB 1; Length 300;
Best Local Similarity 31.8%; Pred. No. 1.1e-06;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

QY 17 QRPCYKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
DB 167 QOKCY---YFGKSKQ--WQARFACSDLQGLRLVSIHSQKEDFLMQHI-----NKKDSW 216

QY 77 IGLRREEKQSNSTACQDL-----YAWTDGSIQFRNRYVDEPSCG--SEVCVMYHQPS 129
DB 217 IGL-----QDLNMEGEFVMSDGSFVGYSNNWPNFEPNNGQGEDCVMW----- 258

; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-04258-7

Query Match      12.7%; Score 141.5; DB 5; Length 125;
Best Local Similarity 31.8%; Pred. No. 3.4e-07;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

QY 17 QRPCYKVIYFHTSRRLNFEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
DB 9 QOKCY---YFGKSKQ--WQARFACSDLQGLRLVSIHSQKEDFLMQHI-----NKKDSW 58

QY 77 IGLRREEKQSNSTACQDL-----YAWTDGSIQFRNRYVDEPSCG--SEVCVMYHQPS 129
DB 59 IGL-----QDLNMEGEFVMSDGSFVGYSNNWPNFEPNNGQGEDCVMW----- 100

QY 130 APAGIGGPFQWNDRC-NMKNNFICK 156
DB 101 --RSGS-----QWDAFCRSYLDWVCE 121

US-08-365-103B-4
RESULT 32
US-08-365-103B-2
; Sequence 2, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
```


Query Match 12.3%; Score 137.5; DB 6; Length 123;
Best Local Similarity 26.9%; Pred. No. 8.7e-07;
Matches 36; Conservative 26; Mismatches 57; Indels 15; Gaps 5;
QY 25 YFHTSRRLNFEAKACRRDGGQGLVSIIESEDEQKLIKFIENLLPSDGDGFWIGLRRRE 84
Db 2 YLIETELKYNHQAWEHCARHDQOLVTIESADKNNAIIDLKRVGKSHNLWLIG---GND 58
QY 85 KQSNSTACQDLAYWT-DGSISOFRNMYVDEPS--CGSEVCVVMYHQSAPAGIGGPMFQ 141
Db 59 EYSSRDYGRPFWSPTGQAFSPAYWSENNPNYKHQHCVHIW--DTXP-----LYQ 109
QY 142 WNDRCNMKNFIC 155
Db 110 WNDRCNMKNFIC 123
RESULT 37
US-09-724-864-39
; Sequence 39, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D
; APPLICANT: Marison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 11000.1050U
; CURRENT APPLICATION NUMBER: US/09/724,864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Mouse
US-09-724-864-39
Query Match 12.3%; Score 137.5; DB 4; Length 492;
Best Local Similarity 25.1%; Pred. No. 5.7e-06;
Matches 43; Conservative 29; Mismatches 56; Indels 33; Gaps 9;
QY 20 CYKVIYFHTSRRLNFEAKACRRDGGQGLVSIIESEDEQKLIKFIENLLPSDGDGFWIGL 79
Db 32 CYALF-----PRRTFLEAWRACRELGNLTPRTPEAQKRVDSL-VGVGPANGLLWIGL 85
QY 80 RREEKQSNSTACQDL-----YAWTDG-SISQFENWY--VDEPSCGSEVCVVMYHQSAP 131
Db 86 QRAQ-----CQPRPLRGFIWTTGDDTAFNTWAPQATEGPCPAQRC----- 129
QY 132 AGIGGPMFOWNDRCNMKNK-NNFICKYSDEK--PAVPSREAEGETELTTP 179
Db 130 AALEASGEHRWLEGSCTLAVDGYLCQFEGACALPLEVQAGPAVVTTIP 180
RESULT 38
US-09-111-470-8
; Sequence 8, Application US/09111470
; Patent No. 627959
; GENERAL INFORMATION:
; APPLICANT: Valladeau, Jenny
; APPLICANT: Ravel, Odile
; APPLICANT: Bates, Elizabeth E.M.
; APPLICANT: Ford, John
; APPLICANT: Saeland, Sem
; APPLICANT: Lebecque, Serge J.E.
; TITLE OF INVENTION: Mammalian Membrane Protein Genes;
; TITLE OF INVENTION: Related Reagents
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue

QY 85 KQSNSTACQDLAYW--TDGSIIS-OFRNWYVDEPS--CGSEVCVVMYHQSAPAGIGGPMY 139
Db 56 -----LGRWTVGTVNKTITKEAENWGAGEPNKKSKEDCVLIYIKRERDSG----- 102
QY 140 FQWNDRCNMKNFIC 155
Db 103 -KWNDACHKRAALC 117
RESULT 35
5514582-12
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO:12
; LENGTH: 110
5514582-12
Query Match 12.3%; Score 137.5; DB 6; Length 110;
Best Local Similarity 32.4%; Pred. No. 7.5e-07;
Matches 45; Conservative 16; Mismatches 45; Indels 33; Gaps 8;
QY 20 CYKVIYFHTSRRLNFEAKACRRDGGQGLVSIIESEDEQKLIKFIENLLPSDGDGFWIGL 79
Db 2 CY----YFGKTKQ--WVHARYACDDMEGQLVSIHSPESQDFLTKH-----ASHTGSWIGL 51
QY 80 RREEKQSNSTACQDLAYWTDGSIISOFRNWYVDEPSGSGS--EVCVVMYHQSAPAGIGGP 137
Db 52 RNLDLKGE-----FIWVDGSHVDYNSWAPGEPTSRSGQEDCVWM-----RSGG-- 94
QY 138 YMFQWNDRCNMKNK-NNFIC 155
Db 95 ---RWNDAPCDRKLGAWVC 110
RESULT 36
5514582-19
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO:19;
; LENGTH: 123
5514582-19

CITY: Palo Alto
 STATE: California
 COUNTRY: USA
 ZIP: 94304-1104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/111,470
 FILING DATE: 08-JUL-1998
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/053,080
 FILING DATE: 09-JUL-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Ching, Edwin P.
 REGISTRATION NUMBER: 34,090
 REFERENCE/DOCKET NUMBER: SF0695
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650)852-9196
 TELEFAX: (650)496-1200
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 238 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-111-470-8

Query Match 12.1%; Score 135; DB 3; Length 238;
 Best Local Similarity 26.6%; Pred. No. 3.9e-06;
 Matches 37; Conservative 24; Mismatches 52; Indels 26; Gaps 5;
 QY 20 CYKVIYFHTSRLNFEAEKACRRDGGOLVSISEDEOKLIEKFIENLLPSDGFWGL 79
 DB 118 CXLV---PTVSSASNKKSEENCRAHVLVIQSQEQ-----DFITGLDTHAAYFGL 170
 QY 80 RRREEKQSNSTACQDLAYMTDGS--ISQFRNRYVDEPSCGSEVCVMYHQPSPAGIGGP 137
 DB 171 WDTGHRQ-----WQVVDQTPYEESTTFWNGEPSSGNEKCATIYRWKTGWG---- 217
 QY 138 YMFQWDDRCNMKNPFICK 156
 DB 218 ----WNDISCSLKQKSVQC 232

RESULT 39
 US-09-535-521-8
 ; Sequence 8, Application US/09535521
 ; Patent No. 6410714
 ; GENERAL INFORMATION:
 ; APPLICANT: Weber, Eric R.
 ; APPLICANT: McCall, Catherine A.
 ; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
 ; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
 ; FILE REFERENCE: AL-5
 ; CURRENT APPLICATION NUMBER: US/09/535,521
 ; CURRENT FILING DATE: 2000-03-24
 ; EARLIER APPLICATION NUMBER: 60/125,913
 ; EARLIER FILING DATE: 1999-03-24
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 128
 ; TYPE: PRT
 ; ORGANISM: Canis familiaris
 US-09-535-521-8

Query Match 12.1%; Score 134.5; DB 4; Length 128;
 Best Local Similarity 28.2%; Pred. No. 1.9e-06;
 Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEKACRRDGGOLVSISEDEOKLIEKFIENLLPSDGFW 76
 DB 11 QRCY---YFGEPPK--WQARFACKLQGRLASHSQEQDFLARY-----ANKKGTW 60
 QY 77 IGLRREKQSNSTACQDLAYMTDGSISQFRNRYVDEPSCG--SEVCVMYHQPSPAGI 134
 DB 61 IGLRDLRGE-----FIWMDENPLVSNRPGEPNNGGQGEDCVM-----QGS 105
 QY 135 GGPYMFQWDDRCNMKNPFICK 155
 DB 106 G-----QWDAFCGSSLDGWVC 122

RESULT 40
 US-09-535-521-11
 ; Sequence 11, Application US/09535521
 ; Patent No. 6410714
 ; GENERAL INFORMATION:
 ; APPLICANT: Weber, Eric R.
 ; APPLICANT: McCall, Catherine A.
 ; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
 ; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
 ; FILE REFERENCE: AL-5
 ; CURRENT APPLICATION NUMBER: US/09/535,521
 ; CURRENT FILING DATE: 2000-03-24
 ; EARLIER APPLICATION NUMBER: 60/125,913
 ; EARLIER FILING DATE: 1999-03-24
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 11
 ; LENGTH: 139
 ; TYPE: PRT
 ; ORGANISM: Canis familiaris
 US-09-535-521-11

Query Match 12.1%; Score 134.5; DB 4; Length 139;
 Best Local Similarity 28.2%; Pred. No. 2.1e-06;
 Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;
 QY 17 QRPCYKVIYFHTSRLNFEAEKACRRDGGOLVSISEDEOKLIEKFIENLLPSDGFW 76
 DB 22 QRCY---YFGEPPK--WQARFACKLQGRLASHSQEQDFLARY-----ANKKGTW 71
 QY 77 IGLRREKQSNSTACQDLAYMTDGSISQFRNRYVDEPSCG--SEVCVMYHQPSPAGI 134
 DB 72 IGLRDLRGE-----FIWMDENPLVSNRPGEPNNGGQGEDCVM-----QGS 116
 QY 135 GGPYMFQWDDRCNMKNPFICK 155
 DB 117 G-----QWDAFCGSSLDGWVC 133

RESULT 41
 US-09-535-521-14
 ; Sequence 14, Application US/09535521
 ; Patent No. 6410714
 ; GENERAL INFORMATION:
 ; APPLICANT: Weber, Eric R.
 ; APPLICANT: McCall, Catherine A.
 ; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
 ; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
 ; FILE REFERENCE: AL-5
 ; CURRENT APPLICATION NUMBER: US/09/535,521
 ; CURRENT FILING DATE: 2000-03-24
 ; EARLIER APPLICATION NUMBER: 60/125,913
 ; EARLIER FILING DATE: 1999-03-24
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 141
 ; TYPE: PRT
 ; ORGANISM: Canis familiaris

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US-09-535-521-14
Query Match      12.1%; Score 134.5; DB 4; Length 141;
Best Local Similarity 28.2%; Pred. No. 2.2e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 24 QKCY---YFGEPPK--WQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 73
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCG--SEVCVVMYHQPAPAGI 134
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 74 IGLRLDREGE-----FIWMDENPLNYSNRPGEPNNGGQGEDCVMM-----QGS 118
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 135 GGPYMFQWDDRCNMK--NNFIC 155
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 119 G-----QWDAFCGSSLDGWVC 135
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

RESULT 42
US-09-535-521-17
; Sequence 17, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-535-521-17

Query Match      12.1%; Score 134.5; DB 4; Length 187;
Best Local Similarity 28.2%; Pred. No. 3.2e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 70 QKCY---YFGEPPK--WQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 119
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCG--SEVCVVMYHQPAPAGI 134
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 120 IGLRLDREGE-----FIWMDENPLNYSNRPGEPNNGGQGEDCVMM-----QGS 164
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 135 GGPYMFQWDDRCNMK--NNFIC 155
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 165 G-----QWDAFCGSSLDGWVC 181
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

RESULT 43
US-09-535-521-20
; Sequence 20, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-535-521-20

Query Match      12.1%; Score 134.5; DB 4; Length 208;
Best Local Similarity 28.2%; Pred. No. 3.7e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 91 QKCY---YFGEPPK--WQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 140
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCG--SEVCVVMYHQPAPAGI 134
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 141 IGLRLDREGE-----FIWMDENPLNYSNRPGEPNNGGQGEDCVMM-----QGS 185
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 135 GGPYMFQWDDRCNMK--NNFIC 155
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 186 G-----QWDAFCGSSLDGWVC 202
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

RESULT 44
US-09-535-521-2
; Sequence 2, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-535-521-2

Query Match      12.1%; Score 134.5; DB 4; Length 292;
Best Local Similarity 28.2%; Pred. No. 5.8e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHTSRLNFEAEACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 175 QKCY---YFGEPPK--WQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 224
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCG--SEVCVVMYHQPAPAGI 134
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 225 IGLRLDREGE-----FIWMDENPLNYSNRPGEPNNGGQGEDCVMM-----QGS 269
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

QY 135 GGPYMFQWDDRCNMK--NNFIC 155
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 270 G-----QWDAFCGSSLDGWVC 286
    |||  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

RESULT 45
US-09-535-521-5
; Sequence 5, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
```

; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 5
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-5

Query Match 12.1%; Score 134.5; DB 4; Length 292;
Best Local Similarity 28.2%; Pred. No. 5.8e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;
QY 17 ORPCYKVIYFHTSRRLNFEAEACRRDGGOLVSISEDEQKLEKFIENLLPSDGF 76
Db 175 QKCY---YFGEPPK--WQAFACSKLQGLASIHSGEODFLARY-----ANKKGTW 224
QY 77 IGLRREKQSNSTACQDLYAWTDGSGISQFRNRYVDEPSCG--SEVCVMYHQPSAPAGI 134
Db 225 IGLRDLDRGE-----FIWMDENPLNSWNRPGPNNGGQGEDCVMW-----QGS 269
QY 135 GGPYMFQWDDRCNMK--NNFIC 155
Db 270 G-----QWDAFCGSLDGWVC 286

RESULT 46
5514582-9
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO: 9;
; LENGTH: 110
5514582-9

Query Match 12.0%; Score 133.5; DB 6; Length 110;
Best Local Similarity 26.5%; Pred. No. 2e-06;
Matches 35; Conservative 20; Mismatches 42; Indels 35; Gaps 6;
QY 32 RLNFEAEACR--RDGGLVSISEDEQKLEKFIENLLPSDGFWIGLRREKQSN 89
Db 6 QYRWDAQLACQTVFGAYLATIQSLQENAFISETVSN-----NRLWIGL-----ND 52
QY 90 TACQDLYAWTDGSGISQFRNRYVDEPS-----CGSEVCVMYHQPSAPAGIGPYMFQWN 143
Db 53 IDLEGHVYWSNGEATDFYTWSSNNPNWENQDCG---VWNYDTVTG-----QWD 98
QY 144 DDCNKNKFNIC 155
Db 99 DDCNKNKFNIC 110

RESULT 47
US-08-340-539A-13
; Sequence 13, Application US/08340539A
; Patent No. 5808025

; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F.
; APPLICANT: Kansas, Geoffrey S.
; TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
; TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & NEAVE
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10020
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,539A
; FILING DATE: 16-NOV-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/008,459
; FILING DATE: 25-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Gunnison, Jane
; REGISTRATION NUMBER: 38,479
; REFERENCE/DOCKET NUMBER: CG-104 CON
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-596-9000
; TELEFAX: 212-596-9090
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 119 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-340-539A-13

Query Match 12.0%; Score 133.5; DB 1; Length 119;
Best Local Similarity 26.5%; Pred. No. 2.2e-06;
Matches 36; Conservative 32; Mismatches 41; Indels 27; Gaps 8;
QY 26 FHTSRLNFEAEACRRDGGOLVSISEDEQKLEKFIENLLPSDGD-FWIGLRREE 84
Db 3 YHYSERSMWNARFKCKHNYTDLVAIQNKR---IE-YLEKTLPKNPTYYWIGIRK--- 55
QY 85 KQSNSTACQDLYAW---TDGSGIS-QFRNRYVDEPS--CGSEVCVMYHQPSAPAGIGPYM 139
Db 56 -----IGKTWTVGCTNKLTKAEANWGTGEPNNKSKEDCVIYIKRERDSG----- 102
QY 140 FQWDDRCNKNKFNIC 155
Db 103 -KWNDDACHKRAALC 117

RESULT 48
US-07-893-929A-9
; Sequence 9, Application US/07893929A
; Patent No. 5336667
; GENERAL INFORMATION:
; APPLICANT: Kirby, Edward P.
; APPLICANT: Peng, Man-ling
; TITLE OF INVENTION: Alboaggregins: Platelet
; TITLE OF INVENTION: Agonists Which Bind to Platelet
; TITLE OF INVENTION: Membrane Glycoprotein Ib
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Temple University - Of The Common-
; ADDRESSEE: wealth System of Higher Education
; STREET: 406 University Services Building

CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 5336667e
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-9
Query Match 12.0%; Score 133.5; DB 1; Length 133;
Best Local Similarity 29.1%; Pred. No. 2.5e-06;
Matches 41; Conservative 21; Mismatches 48; Indels 31; Gaps 8;
QY 20 CYKVIYFHDTSRLNFEAEKACRR-DGGQLVSISEDEQKLIKFIEIENLLPS---DGDGF 75
DB 15 CYQLP-----RLKTWDEAEKYNQWDGGLHVSIESNAKAEFVAQLISRLPKSAIEDRV 68
QY 76 WIGLRREKQSNSTACQDIYAWTSGISQFRNWWYDEPSCGSEVCVWYHQPSPAPAGIG 135
DB 69 WIGLRDRSKREQ---CGHL--WTDNSFVHYE--HVVPPT-----KCFVLERQTE----- 110
QY 136 GPYMFQWDDRCNNKNPFICK 156
DB 111 ---FRKWIAVNCFEKFPPFVCK 128
RESULT 49
PCT-US92-10344-9
Sequence 9 Application PC/TUS9210344
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESSEE: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10344

FILING DATE: 19921201
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: None
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-9
Query Match 12.0%; Score 133.5; DB 5; Length 133;
Best Local Similarity 29.1%; Pred. No. 2.5e-06;
Matches 41; Conservative 21; Mismatches 48; Indels 31; Gaps 8;
QY 20 CYKVIYFHDTSRLNFEAEKACRR-DGGQLVSISEDEQKLIKFIEIENLLPS---DGDGF 75
DB 15 CYQLP-----RLKTWDEAEKYNQWDGGLHVSIESNAKAEFVAQLISRLPKSAIEDRV 68
QY 76 WIGLRREKQSNSTACQDIYAWTSGISQFRNWWYDEPSCGSEVCVWYHQPSPAPAGIG 135
DB 69 WIGLRDRSKREQ---CGHL--WTDNSFVHYE--HVVPPT-----KCFVLERQTE----- 110
QY 136 GPYMFQWDDRCNNKNPFICK 156
DB 111 ---FRKWIAVNCFEKFPPFVCK 128
RESULT 50
US-05-111-470-6
Sequence 6 Application US/09111470
Patent No. 627959
GENERAL INFORMATION:
APPLICANT: Valladeau, Jenny
APPLICANT: Ravel, Odile
APPLICANT: Bates, Elizabeth E.M.
APPLICANT: Ford, John
APPLICANT: Saeland, Sem
APPLICANT: Lebecque, Serge J.E.
TITLE OF INVENTION: Mammalian Membrane Protein Genes;
TITLE OF INVENTION: Related Reagents
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,470
FILING DATE: 08-JUL-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/053,080
FILING DATE: 09-JUL-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090

```

; REFERENCE/DOCKET NUMBER: SF0695
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)852-9196
; TELEFAX: (650)496-1200
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 287 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-111-470-6

Query Match 12.0%; Score 133.5; DB 3; Length 287;
Best Local Similarity 27.4%; Pred. No. 7.2e-06;
Matches 48; Conservative 23; Mismatches 51; Indels 53; Gaps 10;

QY 15 GTQRPCYK-----IYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLIKPIE 66
Db 147 GSQRTCCPVNVWEHQSCYWFSGKA-WAEAEKYQLENHLVWINSWEEQKFI---VQ 202
QY 67 NLLPSDGFDFWIGLRREEKQSNSTACODLYAWTDGS--ISQFRNWWYDEPS-----CG 117
Db 203 HTNPF--NTWIGL-----TSDGSKRWVDGTDYRHHYKXWAVTQPDNWHGHELGG 250
QY 118 SEYCVVMYHQPSAPAGIGGPFYFMQNDRCNNKNNPICKYSDEKPAVPSRAEAGE 172
Db 251 SEDCDEV--QPDG-----RWNDDFCLQVIRWVCE-----KERNATGE 285

```

Search completed: September 9, 2004, 22:47:17
Job time : 34 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:23:07 ; Search time 124 Seconds
(without alignments)
469.393 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLSGQPVCRGTRPC.....EEDAKTKFSREAAALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

- Database : A_Geneseq_29Jan04:*
- 1: Geneseqp1980s:*
 - 2: Geneseqp1990s:*
 - 3: Geneseqp2000s:*
 - 4: Geneseqp2001s:*
 - 5: Geneseqp2002s:*
 - 6: Geneseqp2003as:*
 - 7: Geneseqp2003bs:*
 - 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1115	100.0	374	3 AAY93948	Aay93948 Amino aci
2	1115	100.0	374	4 AAB03651	Aab03651 Human ext
3	1115	100.0	374	5 ABB90203	Abb90203 Human pol
4	1115	100.0	374	5 ABG66680	Abg66680 Human nov
5	1115	100.0	374	6 ADA54522	Ada54522 Human pro
6	1115	100.0	387	4 ADA54574	Ada54574 Human pro
7	1111	99.6	374	6 ADA54574	Ada54574 Human pro
8	1105	99.1	374	3 AAY91490	Aay91490 Human sec
9	1101	98.7	382	2 AAY13367	Aay13367 Amino aci
10	1101	98.7	382	3 ADC78457	Adc78457 Human PRO
11	1101	98.7	382	4 AAB80235	Aab80235 Human PRO
12	1101	98.7	382	6 ABU29033	Aau29033 Human PRO
13	1101	98.7	382	6 ABUS8409	Abu58409 Human PRO
14	1101	98.7	382	6 ABU71613	Abu71613 Human PRO
15	1101	98.7	382	6 ABUS7957	Abu87957 Novel hum
16	1101	98.7	382	6 ABUS4272	Abu84272 Human sec
17	1101	98.7	382	6 ABR66146	Abt66146 Human sec
18	1101	98.7	382	6 ABR65536	Abt65536 Human sec
19	1101	98.7	382	6 ABUS9476	Abu99476 Human PRO
20	1101	98.7	382	6 ABUS2715	Abu82715 Human PRO
21	1101	98.7	382	6 ABUS9836	Abu89836 Novel hum
22	1101	98.7	382	6 ABU71468	Abu71468 Human PRO
23	1101	98.7	382	6 ABR68085	Abt68085 Human sec
24	1101	98.7	382	6 ABUS96138	Abu96138 Novel hum
25	1101	98.7	382	6 ABUS2559	Abu2559 Human sec

26	1101	98.7	382	6 ABO08646	Abo08646 Human sec
27	1101	98.7	382	6 ABO02698	Abo02698 Human sec
28	1101	98.7	382	6 ABR74852	Abr74852 Human sec
29	1101	98.7	382	6 ABR94614	Abr94614 Human sec
30	1101	98.7	382	6 ABUS5587	Abu5587 Human PRO
31	1101	98.7	382	6 ABUS98747	Abu98747 Novel hum
32	1101	98.7	382	6 ABUS97962	Abu97962 Novel hum
33	1101	98.7	382	6 ABUS1668	Abu1668 Novel hum
34	1101	98.7	382	6 ABU71914	Abu71914 Human sec
35	1101	98.7	382	6 ABUS9361	Abu9361 Human PRO
36	1101	98.7	382	6 ABUS6202	Abu6202 Human sec
37	1101	98.7	382	6 ABUS67415	Abu67415 Human sec
38	1101	98.7	382	6 ABUS80443	Abu80443 Human PRO
39	1101	98.7	382	6 ABO01797	Abo01797 Novel hum
40	1101	98.7	382	6 ABR99361	Abr99361 Human sec
41	1101	98.7	382	6 ABR98751	Abr98751 Human sec
42	1101	98.7	382	6 ABO16274	Abo16274 Human sec
43	1101	98.7	382	6 ABR92174	Abr92174 Human sec
44	1101	98.7	382	6 ABO18815	Abo18815 Human sec
45	1101	98.7	382	6 ABR78236	Abr78236 Human sec
46	1101	98.7	382	6 ABUS4972	Abu4972 Novel hum
47	1101	98.7	382	6 ABO00111	Abo00111 Novel hum
48	1101	98.7	382	6 ABO11443	Abo11443 Human sec
49	1101	98.7	382	6 ABO02088	Abo02088 Human sec
50	1101	98.7	382	6 ABUS4370	Abu4370 Human sec

ALIGNMENTS

RESULT 1
AAY93948
ID AAY93948 standard; protein; 374 AA.
XX AC AAY93948;
XX DT 03-OCT-2000 (first entry)
XX DS Amino acid sequence of a lectin ss3939 polypeptide.
XX KW Human; lectin ss3939; chromosome 11; gene therapy.
XX OS Homo sapiens.
XX PH Key Location/Qualifiers
XX FT Peptide 1..21
XX FT Domain /note= "signal peptide"
XX FT Domain /note= "extracellular coding region"
XX FT Domain /note= "predicted transmembrane domain"
XX FT Domain /note= "predicted cytoplasmic or intracellular domain"
WO200039296-A1.
06-JUL-2000.
22-DEC-1999; 99WO-US030523.
23-DEC-1998; 98US-0113820P.
(IMMV) IMMUNEX CORP.
Anderson DA;
WPI; 2000-452394/39.
N-FSDS; AAA57382.

ss3939 nucleic acids, polypeptides and antibodies, useful for identifying human chromosome 11 and diseases associated with it.
Claim 12; Page 8; 73pp; English.

XX The present sequence represents a human lectin ss3939 polypeptide. The
 CC polynucleotide sequence is a source of probes, which may be used to
 CC identify nucleic acids encoding ss3939 proteins, to identify human
 CC chromosome number 11, to map genes on human chromosome number 11, to
 CC identify diseases associated with chromosome 11, as single-stranded sense
 CC or antisense oligonucleotides to inhibit expression of polypeptides
 CC encoded by the ss3939 gene, and for gene therapy. The ss3939 polypeptides
 CC may be useful for developing treatments for diseases (none specified).
 CC associated with defective or insufficient amounts of the polypeptides.
 CC The antibodies may be useful for detecting the presence of ss3939
 CC polypeptides
 XX
 SQ Sequence 374 AA;
 Query Match 100.0%; Score 1115; DB 3; Length 374;
 Best Local Similarity 100.0%; Pred. No. 1.9e-104;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSTESDEQKL 60
 DB 22 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSTESDEQKL 81
 QY 61 IEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 120
 DB 82 IEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDKEKPAVPSRAEGTETLTPV 180
 DB 142 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDKEKPAVPSRAEGTETLTPV 201
 QY 181 LPEETOEDAKTKFKESREAAALNAY 206
 DB 202 LPEETOEDAKTKFKESREAAALNAY 227
 RESULT 2
 AAE03651
 ID AAE03651 standard; protein; 374 AA.
 AC AAE03651;
 XX
 DT 06-AUG-2001 (first entry)
 XX
 DE Human extracellular matrix and cell adhesion molecule-15 (XNAD-15).
 KW Human; extracellular matrix and cell adhesion molecule; XNAD;
 KW gene therapy; genetic disorder; adrenoleukodystrophy; leukaemia;
 KW Down's syndrome; cystic fibrosis; Gaucher's disease; myotonic dystrophy;
 KW sickle cell anaemia; thalassaemia; autoimmune disorder; adenocarcinoma;
 KW inflammatory disorder; acquired immune deficiency syndrome; AIDS;
 KW Addison's disease; allergy; anaemia; asthma; atherosclerosis; melanoma;
 KW Crohn's disease; diabetes mellitus; atopic dermatitis; lymphoma; cancer;
 KW glomerulonephritis; multiple sclerosis; Grave's disease; osteoarthritis;
 KW osteoporosis; psoriasis; rheumatoid arthritis; ulcerative colitis;
 KW infection; cell proliferative disorder; actinic keratosis; myeloma;
 KW arteriosclerosis; neutropenic; anticonvulsant; antithyroid; nephrotropic;
 KW neuroprotective; dermatological.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT Peptide 1..24
 FT Protein 25..374
 FT /label= Signal_peptide
 FT /note= "Mature human extracellular matrix and cell
 FT adhesion molecule (XNAD)"
 FT Domain 46..63
 FT /note= "C-type lectin domain"
 FT Domain 163..176
 FT /note= "C-type lectin domain"
 FT Domain 224..247
 FT /note= "Transmembrane motif"

FT Domain 328..348
 XX /note= "Transmembrane motif"
 PN WO200142285-A2.
 XX 14-JUN-2001.
 XX 05-DEC-2000; 200WO-US032990.
 PF 10-DEC-1999; 99US-0172852P.
 PR 16-DEC-1999; 99US-0172954P.
 XX (INCY-) INCYTE GENOMICS INC.
 XX Yue H, Tang YT, Lal P, Burford N, Azimzai Y, Patterson C;
 PI Baughn MR, Lu DAM, Shah P, Au-Young J;
 XX WPI; 2001-381632/40.
 DR N-PSDB; AAD08059.
 XX
 XX New human extracellular matrix and cell adhesion molecules and
 FT polynucleotide sequences encoding them, useful for diagnosis, prevention,
 FT treatment of genetic, autoimmune and cell proliferative disorders.
 XX
 XX Claim 1; Page 108-109; 135pp; English.
 CC The present sequence is a human extracellular matrix and cell adhesion
 CC molecule (XNAD). The XNAD is used for screening a compound for
 CC effectiveness as an agonist or antagonist of XNAD. The identified agonist
 CC or antagonist are used for treating a disease or condition associated
 CC with decreased or increased expression of functional XNAD. The
 CC polynucleotides encoding XNAD are useful in somatic or germline gene
 CC therapy to correct a genetic deficiency, to express a conditional gene
 CC lethal gene product and to express a protein which affords protection
 CC against intracellular parasites and also for diagnosis of disorders
 CC associated with expression of XNAD. They are also used for generating
 CC hybridisation probes useful in mapping the naturally occurring genomic
 CC sequences and to create knock in humanised animals (pigs) or transgenic
 CC animals (mice or rats) to model human diseases. Oligonucleotide or longer
 CC fragments derived from the polynucleotide sequences may be used as
 CC elements on a microarray. Antibodies which specifically bind XNAD may be
 CC used for the diagnosis of disorders associated with the expression of
 CC XNAD, or in assays to monitor patients being treated with XNAD. Diseases
 CC diagnosed, prevented or treated include genetic disorders such as
 CC adrenoleukodystrophy, Down's syndrome, cystic fibrosis, Gaucher's
 CC disease, myotonic dystrophy, sickle cell anaemia, thalassaemia,
 CC autoimmune/inflammatory disorders such as acquired immune deficiency
 CC syndrome (AIDS), Addison's disease, allergies, anaemia, asthma,
 CC atherosclerosis, Crohn's disease, diabetes mellitus, atopic dermatitis,
 CC glomerulonephritis, multiple sclerosis, Grave's disease, osteoarthritis,
 CC osteoporosis, psoriasis, rheumatoid arthritis, ulcerative colitis,
 CC bacterial, fungal, parasitic, protozoal and helminthic infections and
 CC cell proliferative disorders such as actinic keratosis, arteriosclerosis
 CC and cancer including breast, bladder, bone marrow, brain and uterus
 CC cancer, leukaemia, adenocarcinoma, lymphoma, melanoma and myeloma
 XX
 SQ Sequence 374 AA;
 Query Match 100.0%; Score 1115; DB 4; Length 374;
 Best Local Similarity 100.0%; Pred. No. 1.9e-104;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSTESDEQKL 60
 DB 22 ATGRLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSTESDEQKL 81
 QY 61 IEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 120
 DB 82 IEKFIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDKEKPAVPSRAEGTETLTPV 180
 DB 142 CVVMYHQPAPAGIGGYPYFQWDDRCNKNFICKYSDKEKPAVPSRAEGTETLTPV 201

QY 181 LPEETOEDAKTKFKESREAAALNAY 206
 DB 202 LPEETOEDAKTKFKESREAAALNAY 227

RESULT 3
 ID ABB90203 standard; protein; 374 AA.
 AC ABB90203;
 XX
 DT 24-MAY-2002 (first entry)
 DE Human polypeptide SEQ ID NO 2579.

Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
 anti-allergic; hepatotropic; antidiabetic; anti-inflammatory; anti-ulcer;
 KW vulnary; anticonvulsant; antibacterial; antifungal; antiparasitic;
 KW cardiac; gene therapy; cancer; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; human; secreted protein.
 XX
 OS Homo sapiens.
 XX
 PN WO200190304-A2.
 XX
 PD 29-NOV-2001.
 XX
 PF 18-MAY-2001; 2001WO-US016450.
 XX
 PR 19-MAY-2000; 2000US-0205515P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Birse CE, Rosen CA;
 XX
 DR WPI; 2002-122018/16.
 DR N-PSDB; ABL90612.
 XX
 PT Novel 1405 isolated polypeptides, useful for diagnosis, treatment and
 PT prevention of neural, immune system, muscular, reproductive
 PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative
 PT disorders.
 XX
 PS Claim 11; SEQ ID NO 2579; 2081pp + Sequence Listing; English.

The invention relates to novel genes (AB189449-AB190853) and proteins
 (AB889040-AB890444) useful for preventing, treating or ameliorating
 medical conditions e.g. by protein or gene therapy. The genes are
 isolated from a range of human tissues disclosed in the specification.
 The nucleic acids, proteins, antibodies and (ant)agonists are useful in
 the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
 ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
 breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
 disorders e.g. Addison's disease, allergies, autoimmune haemolytic
 anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
 multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
 cardiovascular disorders such as myocardial ischaemia; (d) wound healing
 ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
 infectious diseases such as viral, bacterial, fungal and parasitic
 infections. Note: The sequence data for this patent did not form part of
 the printed specification, but was obtained in electronic format directly
 from WIPO at ftp.wipo.int/pub/published_pct_sequences

Query Match 100.0%; Score 1115; DB 5; Length 374;
 Best Local Similarity 100.0%; Pred. No. 1.9e-104;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLSGQFVCRGGTQPCYKVIYFHDTSRLNFEAKACRGGQGVSTSEDEQKL 60
 DB 22 ATGRLSGQFVCRGGTQPCYKVIYFHDTSRLNFEAKACRGGQGVSTSEDEQKL 81

QY 61 IEKFIENLLPSDDDFWIGLRRREKOSNSTACODLYAWTDGSIQFRNMYVDEPSCGSEV 120
 DB 82 IEKFIENLLPSDDDFWIGLRRREKOSNSTACODLYAWTDGSIQFRNMYVDEPSCGSEV 141
 QY 121 CVVWHQPSAPAGIGGPFYQWNNDRCKNNKFNICKYSDEKPAVPSREAEGETELTTPV 180
 DB 142 CVVWHQPSAPAGIGGPFYQWNNDRCKNNKFNICKYSDEKPAVPSREAEGETELTTPV 201
 QY 181 LPEETOEDAKTKFKESREAAALNAY 206
 DB 202 LPEETOEDAKTKFKESREAAALNAY 227

RESULT 4
 ID ABG66680 standard; protein; 374 AA.
 AC ABG66680;
 XX
 DT 30-AUG-2002 (first entry)
 DE Human novel polypeptide #15.

Human; inflammatory condition; shock; sepsis; immune response; cancer;
 wound healing; central nervous system disease; haematopoiesis;
 KW peripheral nervous system disease; amyotrophic lateral sclerosis; tendon;
 KW myeloid cell disorder; lymphoid cell disorder; platelet disorder; bone;
 KW cartilage; ligament; nerve tissue; ulcer; osteoporosis; osteoarthritis;
 KW bone degenerative disorder; periodontal disease; reperfusion injury;
 KW lung fibrosis; liver fibrosis; autoimmune disorder; bacterial infection;
 KW allergic condition; thrombolysis; thrombosis; coagulation disorder;
 KW fungal infection.
 XX
 OS Homo sapiens.
 XX
 PN WO200244340-A2.
 XX
 PD 06-JUN-2002.
 XX
 PF 30-NOV-2001; 2001WO-US047004.
 XX
 PR 30-NOV-2000; 2000US-00728952.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Tang YT, Goodrich RW, Liu C, Zhou P, Asundi V, Wang J, Wang D;
 PI Yamazaki V, Ujwal ML, Drmanac RT;
 XX
 DR WPI; 2002-508503/54.
 DR N-PSDB; ABK94904.
 XX
 PT Novel nucleic acids and polypeptides for diagnosis, treatment of
 PT inflammatory, autoimmune, nervous system, myeloid or lymphoid cell
 PT disorders, cancer and promoting wound healing.
 XX
 PS Claim 10; Page 579-580; 672pp; English.

The invention relates to human novel polynucleotides and associated
 polypeptides. The polynucleotides and polypeptides are useful for
 treating inflammatory conditions such as arthritis, nephritis, Crohn's
 disease, ischaemia-reperfusion injury, shock, sepsis, immune responses
 and cancer and for promoting wound healing. The sequences are used to
 induce the proliferation of neural cells and regeneration of nerve and
 brain tissue, and are useful for the treatment of central and peripheral
 nervous system diseases and neuropathies, such as Alzheimer's disease,
 Parkinson's disease, Huntington's disease and amyotrophic lateral
 sclerosis. The sequences are involved in chemotactic or chemokinetic
 activity, regulation of haematopoiesis, treatment of myeloid or lymphoid
 cell disorders and platelet disorders such as thrombocytopenia,
 regeneration of bone, cartilage, tendon, ligament and/or nerve tissue
 growth, tissue repair, healing of burns, incisions, ulcers, treatment of
 osteoporosis, osteoarthritis, bone degenerative disorders and periodontal

CC disease. The sequences of the invention are also useful for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues, immune deficiencies and disorders
 CC including severe combined immunodeficiency (SCID), bacterial or fungal
 CC infections, autoimmune disorders e.g. multiple sclerosis and myasthenia
 CC gravis, allergic conditions such as asthma, thrombolytic or thrombosis
 CC and coagulation disorders. Sequences ABG66666-ABG66758 represent human
 CC novel polypeptides of the invention
 XX
 SQ Sequence 374 AA;

Query Match 100.0%; Score 1115; DB 5; Length 374;
 Best Local Similarity 100.0%; Pred. No. 1.9e-104;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESEDEQKL 60
 Db 22 ATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESEDEQKL 81
 QY 61 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQPRNMYVDEPSCGSEV 120
 Db 82 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQPRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGPFYQWMDRCNKNFNICKYSDKPAVPSREAGEETELTPV 180
 Db 142 CVVMYHQPAPAGIGGPFYQWMDRCNKNFNICKYSDKPAVPSREAGEETELTPV 201
 QY 181 LPEETOEDAKTKFESREAAALNLAY 206
 Db 202 LPEETOEDAKTKFESREAAALNLAY 227

RESULT 5

ADA54522
 ID ADA54522 standard; protein; 374 AA.

XX AC ADA54522;
 XX DT 20-NOV-2003 (first entry)

XX DE Human protein, SEQ ID 2090.

XX KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
 KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
 KW inflammatory disease; osteoporosis; neurological disease.

XX OS Homo sapiens.

XX PN EP1293569-A2.

XX PD 19-MAR-2003.

XX PF 21-MAR-2002; 2002EP-00005586.

XX PR 14-SEP-2001; 2001JP-00328381.

XX PR 24-JAN-2002; 2002US-0350435P.

XX (HELI-) HELIX RES INST.

XX (REAS-) RES ASSOC BIOTECHNOLOGY.

XX PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
 PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;

XX WPI; 2003-395539/38.
 XX DR N-PSDB; ADA52883.

XX PT New polynucleotides encoding full-length polypeptides, e.g. secretory
 PT and/or membrane proteins, useful for developing medicines for diseases in
 PT which the gene is involved, or as target molecules for gene therapy.

XX PS Claim 14; SEQ ID NO 2090; 205pp; English.

CC The present invention relates to novel human secretory or membrane
 CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
 CC ADA54071). The coding sequences are useful in the gene therapy of
 CC diseases caused by abnormalities of the proteins, e.g. cancer,
 CC inflammatory diseases, osteoporosis or neurological disease.
 XX
 SQ Sequence 374 AA;

Query Match 100.0%; Score 1115; DB 6; Length 374;
 Best Local Similarity 100.0%; Pred. No. 1.9e-104;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESEDEQKL 60
 Db 22 ATGRLLSGQPVCRGGTQRCYKVIYFHDTSRLNFEAKEACRRDGGQGVLSIESEDEQKL 81
 QY 61 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQPRNMYVDEPSCGSEV 120
 Db 82 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQPRNMYVDEPSCGSEV 141
 QY 121 CVVMYHQPAPAGIGGPFYQWMDRCNKNFNICKYSDKPAVPSREAGEETELTPV 180
 Db 142 CVVMYHQPAPAGIGGPFYQWMDRCNKNFNICKYSDKPAVPSREAGEETELTPV 201
 QY 181 LPEETOEDAKTKFESREAAALNLAY 206
 Db 202 LPEETOEDAKTKFESREAAALNLAY 227

RESULT 6

AAW25796

ID AAW25796 standard; protein; 387 AA.

XX AC AAW25796;
 XX DT 16-OCT-2001 (first entry)

XX DE Human protein sequence SEQ ID NO:1311.

XX KW Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
 KW anti-inflammatory; antirheumatic; antiarthritic; immunosuppressive;
 KW antibacterial; endocrine; cardiant; cardiovascular; antianaemic; anaemia;
 KW anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia;
 KW antiaggregant; haemostatic; vulnery; antilucer; osteopathic; eczema;
 KW dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic;
 KW neuroprotective; antidepressant; nootropic; antiparkinsonian; infection;
 KW immunostimulant; gene therapy; antisenese therapy; vaccine; inflammation;
 KW antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
 KW cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
 KW genetic disease; haematopoietic disorder; platelet disorder; asthma;
 KW thrombocytopenia; osteoporosis; severe combined immunodeficiency;
 KW allergic rhinitis; diabetes; multiple sclerosis; depression;
 KW Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
 KW neurological disorder.

XX OS Homo sapiens.

XX PN WO200153455-A2.

XX PD 26-JUL-2001.

XX PF 22-DEC-2000; 2000WO-US035017.

XX PR 23-DEC-1999; 99US-00471275.

XX PR 21-JAN-2000; 2000US-00488725.

XX PR 25-APR-2000; 2000US-00552317.

XX (HYSE-) HYSEQ INC.

XX PI Tang YT, Liu C, Drmanac RT;

XX DR WPI; 2001-457603/49.
 XX N-PSDB; AAH99737.

XX Isolated human polynucleotides encoding polypeptides, useful for the
PT treatment and diagnosis of e.g. cancer, ulcers and HIV infection.
XX
XX
PS Claim 20; Page 272; 1217pp; English.
XX
XX AAH99166 to AAH99904 encode the human proteins given in AAH25225 to
CC AAH25963. The proteins can have activities based on the tissues and cells
CC they are expressed in, such as: antiinflammatory; antirheumatic;
CC antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant;
CC central nervous system; viricide; anti-HIV; fungicide; antimutagen;
CC cardiovascular; antianaemic; antiagregant; haemostatic; vulnery;
CC antitumor; osteopathic; dermatological; antiallergic; antiasthmatic;
CC antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;
CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
CC encoding them can be used in gene therapy, antisense therapy and vaccine
CC production. The proteins and polynucleotides are useful for screening for
CC agonists or antagonists of a protein and for the treatment and diagnosis
CC of disorders associated with the activity of a protein e.g. inflammation,
CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
CC anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,
CC osteoporosis, severe combined immunodeficiency, eczema, allergic
CC rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
CC neurological disorders
XX
XX Sequence 387 AA;
SQ
Query Match 100.0%; Score 1115; DB 4; Length 387;
Best Local Similarity 100.0%; Pred. No. 2e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLSGQPVCRGQTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESEDEQKL 60
Db 35 ATGRLSGQPVCRGQTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESEDEQKL 94
QY 61 IEKFIENLLPSDGDWFVIGLRREEKQSNSTACODLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 95 IEKFIENLLPSDGDWFVIGLRREEKQSNSTACODLYAWTDGSIQFRNWWYVDEPSCGSEV 154
QY 121 CVVMYHQPSAPAGIGPYMFQWDDRCNNKNNFICKYSDKPAVPSREAEGETELTTPV 180
Db 155 CVVMYHQPSAPAGIGPYMFQWDDRCNNKNNFICKYSDKPAVPSREAEGETELTTPV 214
QY 181 LPETQEDDAKTKTFKESREAAALNLAY 206
Db 215 LPETQEDDAKTKTFKESREAAALNLAY 240
RESULT 7
ADA54574
ID ADA54574 standard; protein; 374 AA.
XX
XX ADA54574;
XX
XX 20-NOV-2003 (first entry)
DT
XX
XX Human protein, SEQ ID 2142.
DE
XX
XX Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
KW inflammatory disease; osteoporosis; neurological disease.
XX
XX Homo sapiens.
OS
XX
XX EP1293569-A2.
PN
XX
XX 19-MAR-2003.
PD
XX
XX 21-MAR-2002; 2002EP-00006586.
PF
XX

PR 14-SEP-2001; 2001JP-00328381.
XX 24-JAN-2002; 2002US-0350435P.
XX
PA (HELI-) HELIX RES INST.
XX
XX (REAS-) RES ASSOC BIOTECHNOLOGY.
XX
PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
PI Seki N, Yoshikawa T, Otsuka M, Naganari K, Masuho Y;
XX
XX WPI; 2003-395539/38.
DR N-PSDB; ADA52935.
XX
XX New polynucleotides encoding full-length polypeptides, e.g. secretory
PT and/or membrane proteins, useful for developing medicines for diseases in
PT which the gene is involved, or as target molecules for gene therapy.
XX
XX Claim 14; SEQ ID NO 2142; 205pp; English.
PS
XX The present invention relates to novel human secretory or membrane
CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
CC ADA54071). The coding sequences are useful in the gene therapy of
CC diseases caused by abnormalities of the proteins, e.g. cancer,
CC inflammatory diseases, osteoporosis or neurological disease.
XX
XX Sequence 374 AA;
SQ
Query Match 99.6%; Score 1111; DB 6; Length 374;
Best Local Similarity 99.5%; Pred. No. 4.8e-104;
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGRLSGQPVCRGQTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESEDEQKL 60
Db 22 ATGRLSGQPVCRGQTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQGVLSIESEDEQKL 81
QY 61 IEKFIENLLPSDGDWFVIGLRREEKQSNSTACODLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDWFVIGLRREEKQSNSTACODLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGPYMFQWDDRCNNKNNFICKYSDKPAVPSREAEGETELTTPV 180
Db 142 CVVMYHQPSAPAGIGPYMFQWDDRCNNKNNFICKYSDKPAVPSREAEGETELTTPV 201
QY 181 LPETQEDDAKTKTFKESREAAALNLAY 206
Db 202 LPETQEDDAKTKTFKESREAAALNLAY 227
RESULT 8
AA91490
ID AA91490 standard; protein; 374 AA.
XX
XX AA91490;
XX
XX 29-JUN-2000 (first entry)
DT
XX
XX Human secreted protein sequence encoded by gene 40 SEQ ID NO:163.
DE
XX
XX Human; secreted protein; diagnosis; cytostatic; immunosuppressive;
KW antiHIV; antiinflammatory; nootropic; neuroprotective; antiallergic;
KW osteopathic; antiarthritic; antibacterial; antidiabetic; antiasthma;
KW antipsoptic; cardiant; gene therapy; cancer; neurological disorder;
KW immune disease; inflammation; blood disorder; tumour.
XX
XX Homo sapiens.
OS
XX
XX WO200006698-A1.
PN
XX
XX 10-FEB-2000.
PD
XX
XX 29-JUL-1999; 99WO-US017130.
PF
XX
XX 30-JUL-1998; 98US-0094657P.
PF
XX

PR 05-AUG-1998; 98US-0095486P.
 PR 06-AUG-1998; 98US-0095454P.
 PR 06-AUG-1998; 98US-0095455P.
 PR 12-AUG-1998; 98US-0096319P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 XX Komatsoulis GA, Rosen CA, Ruben SM, Duan R, Moore PA, Shi Y;
 PI Lafleur D, Wei Y, Ni J, Florence KA, Young PE, Brewer LA;
 PI Soppet DR, Endress GA, Ebner R, Olsen HS, Mucenski M;
 XX WPI: 2000-195282/17.
 DR N-PSDB; AA26395.
 DR
 XX New isolated human genes and the secreted polypeptides they encode,
 PT useful for diagnosis and treatment of e.g. cancers, neurological
 PT disorders, immune diseases, inflammation or blood disorders.
 XX
 PS Claim 11; Page 483-484; 634pp; English.
 XX
 CC The polynucleotide sequences given in AA26346 to AA26458 encode the
 CC human secreted proteins given in AAY91451 to AAY91691. The human secreted
 CC proteins can have activities based on the tissues and cells they are
 CC expressed in. Examples of the activities are: cytostatic;
 CC immunosuppressive; antiHIV; antiinflammatory; neurotropic; neuroprotective;
 CC antiallergic; osteopathic; antiarthritic; antibacterial; antidiabetic;
 CC antiasthma; antiporiatic; and cardiant. The polynucleotides and their
 CC corresponding secreted proteins are useful for preventing, treating or
 CC ameliorating medical conditions, e.g. by protein or gene therapy. Also
 CC pathological conditions can be diagnosed by determining the amount of the
 CC proteins in a sample or by determining the presence of mutations in the
 CC polynucleotides. Specific uses are described for each of the
 CC polynucleotides, based on which tissues they are most highly expressed
 CC in, and include developing products for the diagnosis or treatment of
 CC cancer, tumors, neurodegenerative disorders, developmental abnormalities
 CC and fetal deficiencies, blood disorders, diseases of the immune system,
 CC autoimmune diseases, hepatic and renal disease, inflammation, allergies,
 CC Alzheimer's and behavioural disorders, schizophrenia, osteoporosis,
 CC arthritis, infections, AIDS, spinal cord injuries, transplant rejection,
 CC diabetes, asthma, sepsis, acne, psoriasis, cardiovascular disorders,
 CC reproductive disorders, gastrointestinal disorders, respiratory disorders
 CC and metabolic disorders. The proteins or polynucleotides can also be used
 CC as food additives or preservatives. The proteins are also useful for
 CC identifying their binding partners. AA26337 to AA26345 and AAY91450 are
 CC sequences used in the exemplification of the present invention
 XX
 SQ Sequence 374 AA;

Query Match 99.1%; Score 1105; DB 3; Length 374;
 Best Local Similarity 99.0%; Pred. No. 2e-103;
 Matches 204; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGRLSGQPCVCRGTQPCVKYVIFHDTSRLLNFEFEAKACRRDGGQGVLSIEDSQKL 60
 DB 22 ATGRLSGQPCVCRGTQPCVKYVIFHDTSRLLNFEFEAKACRRDGGQGVLSIEDSQKL 81
 QY 61 TEKFTENLLPSDGFWIGLRREKQSNSTACQLYAWTDCGISQFRNWWYDEPSCGSEV 120
 DB 82 IEXFTENLLPSDGFWIGLRREKQSNSTACQLYAWTDCGISQFRNWWYDEPSCGSEV 141
 QY 121 CVMVTHQSPAGIGPFWQNDRCNKNFNICKYSDEKPAVPSREAGEETELTPV 180
 DB 142 CVMVTHQSPAGIGPFWQNDRCNKNFNICKYSDEKPAVPSREAGEETELTPV 201
 QY 181 LPEETQEDAKKTFKESREAAALNAY 206
 DB 202 LPEETQEDAKKTFKESREAAALNAY 227

RESULT 9
 AAY13367
 ID AAY13367 standard; protein; 382 AA.
 XX

AC AAY13367;
 XX 25-JUN-1999 (first entry)
 DT
 XX
 DE Amino acid sequence of protein PRO234.
 XX
 XX Secreted protein; transmembrane protein; human; enterocolitis;
 KW Zollinger-Ellison syndrome; gastrointestinal ulceration;
 KW congenital microvillus atrophy; skin disease; cell growth;
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
 KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
 KW dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
 KW wound healing; tissue repair.
 XX
 OS Homo sapiens.
 XX
 XX WO9914328-A2.
 FN
 XX
 XX 25-MAR-1999.
 PD
 XX
 XX 16-SEP-1998; 98WO-US019330.
 PF
 XX 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059115P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059119P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 17-OCT-1997; 97US-0062287P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0062814P.
 PR 24-OCT-1997; 97US-0062816P.
 PR 24-OCT-1997; 97US-0063045P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 24-OCT-1997; 97US-0063121P.
 PR 24-OCT-1997; 97US-0063127P.
 PR 24-OCT-1997; 97US-0063128P.
 PR 27-OCT-1997; 97US-0063327P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.
 PR 28-OCT-1997; 97US-0063543P.
 PR 28-OCT-1997; 97US-0063549P.
 PR 28-OCT-1997; 97US-0063550P.
 PR 28-OCT-1997; 97US-0063564P.
 PR 29-OCT-1997; 97US-0063435P.
 PR 29-OCT-1997; 97US-0063704P.
 PR 29-OCT-1997; 97US-0063732P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 29-OCT-1997; 97US-0063735P.
 PR 29-OCT-1997; 97US-0063738P.
 PR 29-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065693P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 25-NOV-1997; 97US-0066840P.
 XX

PA (GETH) GENENTECH INC.
XX Wood WI, Gurney AL, Pennica D, Chen J, Yuan J;
XX WPI; 1999-229533/19.
DR N-PSDB; AAX52238.
XX
PT New isolated human genes and polypeptides used in, e.g. treatment of
PT gastrointestinal ulceration.
XX
XX Claim 12; Fig 50; 320pp; English.
XX
XX AAY1344-403 represent secreted and transmembrane human proteins. The
CC cDNA sequences are obtained from cDNA libraries, prepared from fetal
CC lung, fetal kidney, fetal brain, fetal liver and fetal retina. The
CC encoded polypeptides have specific uses based on their homology to known
CC polypeptides e.g. PRO211 and PRO217 can be used for disorders associated
CC with the preservation and maintenance of gastrointestinal mucosa and the
CC repair of acute and chronic mucosal lesions (e.g. enterocolitis,
CC Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital
CC microvillus atrophy), skin diseases associated with abnormal keratinocyte
CC differentiation (e.g. psoriasis, epithelial cancers such as lung squamous
CC cell carcinoma of the vulva and gliomas), potent effects on cell growth
CC and development, diseases related to growth or survival of nerve cells
CC including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or
CC cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC have therapeutic applications in wound healing and tissue repair; PRO317
CC can be used for treating problems of the kidney, uterus, endometrium,
CC blood vessels, or related tissue, e.g. in the heart of genital tract
XX
XX Sequence 382 AA;
XX
XX Query Match 98.7%; Score 1101; DB 2; Length 382;
XX Best Local Similarity 96.3%; Pred. No. 5.2e-103;
XX Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
XX
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSI 81
XX
QY 53 ESEDEOKLIEKFTENLLPSDGDWIGLRRREKQSNSTACODLYAWTDGSIQFRNYYVD 112
DB 82 ESEDEOKLIEKFTENLLPSDGDWIGLRRREKQSNSTACODLYAWTDGSIQFRNYYVD 141
XX
QY 113 EPSCGSEVCVVMYHQPSPAGIGGPTMFWQNDRCNMKNFKICKYSDEKPAVPSREAE 172
DB 142 EPSCGSEVCVVMYHQPSPAGIGGPTMFWQNDRCNMKNFKICKYSDEKPAVPSREAE 201
XX
QY 173 ETELTTPVLPETQEDAKTKFKESREAAALNAY 206
DB 202 ETELTTPVLPETQEDAKTKFKESREAAALNAY 235
XX
RESULT 10
ADCT78457
ID ADCT78457 standard; protein; 382 AA.
XX
XX ADCT78457;
XX
DT 01-JAN-2004 (first entry)
XX
DE Human PRO234 protein.
XX
XX antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW neurotrophic; neuroprotective; vasotrophic; chemotactic; angiogenic;
KW neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
KW antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;

KW nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW diabetes; stroke; gene therapy; transgenic; PRO; human.
XX
OS Homo sapiens.
XX
XX WO200015796-A2.
XX
XX 23-MAR-2000.
XX
XX 15-SEP-1999; 99WO-US021090.
XX
XX 16-SEP-1998; 98WO-US019330.
XX
XX (GETH) GENENTECH INC.
XX
XX Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
XX Yuan J;
XX WPI; 2000-271434/23.
XX N-PSDB; ADC78456.
XX
XX Novel nucleic acids encoding secreted and transmembrane polypeptides with
XX homology, e.g. to growth and cancer-associated antigens.
XX
XX Claim 12; SEQ ID NO 137; 355pp; English.
XX
XX The invention relates to a novel nucleic acid encoding a PRO polypeptide.
XX The polypeptides and polynucleotides of the invention may be useful as
XX research tools and as therapeutics for treating enterocolitis, Zollinger-
XX Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
XX Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
XX scarring and wound healing, nerve repair, thrombosis, bone and/or
XX cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
XX sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
XX infertility, premature aging, AIDS, diabetes complications and stroke.
XX The molecules may also be utilised during gene therapy procedures and
XX transgenic animal production. The current sequence is that of the human
XX PRO protein of the invention.
XX
XX Sequence 382 AA;
XX
XX Query Match 98.7%; Score 1101; DB 3; Length 382;
XX Best Local Similarity 96.3%; Pred. No. 5.2e-103;
XX Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSI 81
XX
QY 53 ESEDEOKLIEKFTENLLPSDGDWIGLRRREKQSNSTACODLYAWTDGSIQFRNYYVD 112
DB 82 ESEDEOKLIEKFTENLLPSDGDWIGLRRREKQSNSTACODLYAWTDGSIQFRNYYVD 141
XX
QY 113 EPSCGSEVCVVMYHQPSPAGIGGPTMFWQNDRCNMKNFKICKYSDEKPAVPSREAE 172
DB 142 EPSCGSEVCVVMYHQPSPAGIGGPTMFWQNDRCNMKNFKICKYSDEKPAVPSREAE 201
XX
QY 173 ETELTTPVLPETQEDAKTKFKESREAAALNAY 206
DB 202 ETELTTPVLPETQEDAKTKFKESREAAALNAY 235
XX
RESULT 11
AAB80235
ID AAB80235 standard; protein; 382 AA.
XX
XX AAB80235;
XX
DT 24-APR-2001 (first entry)
XX
XX Human PRO234 protein.

XX Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
 KW antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
 KW antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
 KW antithalamic; antinfertility; antidiabetic; antiviral; diabetes;
 KW ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
 KW ischaemia; inflammation.
 XX Homo sapiens.
 XX WO200104311-A1.
 XX 18-JAN-2001.
 XX 22-FEB-2000; 2000WO-US004414.
 XX 07-JUL-1999; 99US-0143048P.
 XX 26-JUL-1999; 99US-0145698P.
 XX 28-JUL-1999; 99US-0146222P.
 XX 08-SEP-1999; 99WO-US020594.
 XX 13-SEP-1999; 99WO-US020944.
 XX 15-SEP-1999; 99WO-US021090.
 XX 15-SEP-1999; 99WO-US021547.
 XX 05-OCT-1999; 99WO-US023089.
 XX 29-NOV-1999; 99WO-US028214.
 XX 30-NOV-1999; 99WO-US028313.
 XX 02-DEC-1999; 99WO-US028564.
 XX 02-DEC-1999; 99WO-US028565.
 XX 16-DEC-1999; 99WO-US030095.
 XX 20-DEC-1999; 99WO-US030911.
 XX 20-DEC-1999; 99WO-US030999.
 XX 05-JAN-2000; 2000WO-US000219.
 XX (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Botstein D, Deenoyers L, Eaton DL, Ferrara N;
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams PM, Wood WJ;
 XX WPI: 2001-081051/09.
 XX N-PDDB; AAF72396.
 XX Sixty one nucleic acids encoding PRO polypeptides which are useful in the
 PT treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
 PT cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
 PT disease).
 XX Claim 1; Fig 50; 393pp; English.
 XX The present sequence is one of sixty one novel secreted and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful for treating skin
 CC diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma),
 CC gastrointestinal disorders (e.g. enterocolitis), neurodegenerative
 CC diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair,
 CC cardiovascular disorders (e.g. endometrial bleeding angiogenesis,
 CC ischaemias such as coronary ischaemia, atherosclerosis), inflammatory
 CC disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis),
 CC infertility, AIDS and diabetes and retinal disorders such as retinitis
 CC pigmentosum. The PRO nucleic acids have applications in molecular
 CC biology, including use as hybridization probes, and in chromosome and
 CC gene mapping
 XX Sequence 382 AA;
 XX Query Match 98.7%; Score 1101; DB 4; Length 382;
 XX Best Local Similarity 96.3%; Pred. No. 5.2e-103;
 XX Matches 206; Conservative 0; Mismatches 8; Gaps 1;
 XX 1 ATGRLLS-----GQVCRGCTGTCPCYKVIYHDTSTRLNFEAKACRRDGGQVSI 52
 XX 22 ATGRLLSASDLDLRGGQPVCRGCTGTCPCYKVIYHDTSTRLNFEAKACRRDGGQVSI 81

QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNYYVD 112
 DB 82 ESEDEQKLEKFIENLLPSDGFWIGLRREKQSNSTACQDIYAWTDGSIQFRNYYVD 141
 QY 113 EPSCGSEVCVMYHQPSPAPAGIGPWFQWMDRCNMKNFICKYSDEKPAVPSREAEGE 172
 DB 142 EPSCGSEVCVMYHQPSPAPAGIGPWFQWMDRCNMKNFICKYSDEKPAVPSREAEGE 201
 QY 173 ETELTTPVLPEETQEDDAKTKFESREAAINLAY 206
 DB 202 ETELTTPVLPEETQEDDAKTKFESREAAINLAY 235
 RESULT 12
 AAU29033
 ID AAU29033 standard; protein; 382 AA.
 XX AC AAU29033;
 XX DT 18-DEC-2001 (first entry)
 XX DE Human PRO polypeptide sequence #10.
 XX KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
 KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
 KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
 KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
 XX Homo sapiens.
 XX WO200168848-A2.
 XX 20-SEP-2001.
 XX 28-FEB-2001; 2001WO-US006520.
 XX 01-MAR-2000; 2000WO-US005601.
 XX 02-MAR-2000; 2000WO-US005841.
 XX 03-MAR-2000; 2000US-0187202P.
 XX 06-MAR-2000; 2000US-0186968P.
 XX 14-MAR-2000; 2000US-0189320P.
 XX 15-MAR-2000; 2000US-0189328P.
 XX 15-MAR-2000; 2000WO-US006884.
 XX 21-MAR-2000; 2000US-0190828P.
 XX 21-MAR-2000; 2000US-0191007P.
 XX 21-MAR-2000; 2000US-0191048P.
 XX 21-MAR-2000; 2000US-0191314P.
 XX 28-MAR-2000; 2000US-0192655P.
 XX 29-MAR-2000; 2000US-0193032P.
 XX 29-MAR-2000; 2000US-0193053P.
 XX 30-MAR-2000; 2000WO-US008439.
 XX 04-APR-2000; 2000US-0194449P.
 XX 04-APR-2000; 2000US-0194647P.
 XX 11-APR-2000; 2000US-0195975P.
 XX 11-APR-2000; 2000US-0196000P.
 XX 11-APR-2000; 2000US-0196187P.
 XX 11-APR-2000; 2000US-0196690P.
 XX 11-APR-2000; 2000US-0196820P.
 XX 18-APR-2000; 2000US-0198121P.
 XX 18-APR-2000; 2000US-0198585P.
 XX 25-APR-2000; 2000US-0199397P.
 XX 25-APR-2000; 2000US-0199550P.
 XX 25-APR-2000; 2000US-0199654P.
 XX 03-MAY-2000; 2000US-0201516P.
 XX 17-MAY-2000; 2000WO-US013705.
 XX 22-MAY-2000; 2000WO-US014042.
 XX 30-MAY-2000; 2000WO-US014941.
 XX 02-JUN-2000; 2000WO-US015264.
 XX 05-JUN-2000; 2000US-0209832P.
 XX 28-JUL-2000; 2000WO-US020710.
 XX 22-AUG-2000; 2000US-02644848.
 XX 24-AUG-2000; 2000WO-US023328.


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PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032878.
PR 20-DEC-2000; 2000WO-US034956.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2001-602746/68.
XX N-PSDB; AAS45934.
XX
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
XX presence of tumors, such as prostate and breast tumors, in mammals and to
XX screen for modulators of the compounds.
XX
XX Claim 11; Fig 20; 774pp; English.
XX
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
XX The PRO polypeptides and their associated nucleic acids can be used to
XX detect the presence of a tumour in a mammal by comparing the level of
XX expression of a PRO polypeptide in a test sample of cells from the animal
XX and a control sample of normal cells, whereby a higher level of
XX expression in the test sample indicates the presence of a tumour in the
XX mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
XX and rabbits but are preferably human. The polypeptides can be used to
XX stimulate tumour necrosis factor (TNF) alpha release from human blood,
XX when contacted with it. A specific polypeptide can be used to stimulate
XX the proliferation or differentiation of chondrocyte cells. The PRO
XX proteins can be used to determine the presence of tumours and also
XX susceptibility to tumour development, particularly adrenal, lung, colon,
XX breast, prostate, rectal, cervical, or liver tumours, in mammalian
XX subjects. The oligonucleotide probes specific for the PRO nucleic acids
XX can be used for genetic analysis of individuals with genetic disorders
XX
XX Sequence 382 AA;
XX
XX Query Match 98.7%; Score 1101; DB 4; Length 382;
XX Best Local Similarity 96.3%; Pred. NO. 5.2e-103;
XX Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
XX
XX QY 1 ATGRLLS-----GQPCVCGGTGTCPCYKVIYFHTDTSRRLNFEAKEACRRDGGQLVSI 52
XX DB 22 ATGRLLSASDLDRGQGVCGGTGTCPCYKVIYFHTDTSRRLNFEAKEACRRDGGQLVSI 81
XX
XX QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRREKQSNSTACQDLVATDGSISQFRNMYVD 112
XX DB 82 ESEDEQKLIKFIENLLPSDGFWIGLRREKQSNSTACQDLVATDGSISQFRNMYVD 141
XX
XX QY 113 EPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 172
XX DB 142 EPSCGSEVCVMYHOPSPAGIGGYPFQWDDRCNMKNFKICKYSDEKPAVPSREAGE 201
XX
XX QY 173 ETELTPVLPETQEDAKTKFKESREAAALNAY 206
XX DB 202 ETELTPVLPETQEDAKTKFKESREAAALNAY 235
XX
XX RESULT 13
XX ID ABUS8409 standard; protein; 382 AA.
XX AC ABUS8409;
XX
XX XX 15-APR-2003 (first entry)
XX DE Human PRO polypeptide #10.
XX
XX KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
XX dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT;
XX antibody-dependent enzyme mediated prodrug therapy.
XX
XX OS Homo sapiens.

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XX
XX US2003027272-A1.
XX
XX 06-FEB-2003.
XX
XX 21-JUN-2002; 2002US-00176492.
XX
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
XX 28-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
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XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
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XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
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XX 27-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
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XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082669P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
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XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
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XX 15-MAY-1998; 98US-0085579P.
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XX 15-MAY-1998; 98US-0085700P.
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XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087208P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088025P.
XX 04-JUN-1998; 98US-0088028P.
XX 04-JUN-1998; 98US-0088029P.
XX 04-JUN-1998; 98US-0088033P.

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PR 04-JUN-1998;	98US-0088326P.	PR 02-SEP-1998;	98US-0098821P.
PR 05-JUN-1998;	98US-0088167P.	PR 02-SEP-1998;	98US-0098843P.
PR 05-JUN-1998;	98US-0088202P.	PR 09-SEP-1998;	98US-0099502P.
PR 05-JUN-1998;	98US-0088212P.	PR 10-SEP-1998;	98US-0099741P.
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PR 10-JUN-1998;	98US-0088740P.	PR 15-SEP-1998;	98US-0100562P.
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PR 10-JUN-1998;	98US-0088824P.	PR 16-SEP-1998;	98US-0101751P.
PR 10-JUN-1998;	98US-0088825P.	PR 16-SEP-1998;	98US-01019330.
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PR 11-JUN-1998;	98US-0088861P.	PR 17-SEP-1998;	98US-0100684P.
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PR 11-JUN-1998;	98US-0088876P.	PR 17-SEP-1998;	98US-0100930P.
PR 12-JUN-1998;	98US-0089090P.	PR 18-SEP-1998;	98US-0100849P.
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PR 17-JUN-1998;	98US-0089538P.	PR 23-SEP-1998;	98US-0101472P.
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PR 17-JUN-1998;	98US-0089653P.	PR 23-SEP-1998;	98US-0101477P.
PR 18-JUN-1998;	98US-0089908P.	PR 24-SEP-1998;	98US-0101738P.
PR 19-JUN-1998;	98US-0089952P.	PR 24-SEP-1998;	98US-0101739P.
PR 22-JUN-1998;	98US-0090246P.	PR 24-SEP-1998;	98US-0101743P.
PR 22-JUN-1998;	98US-0090252P.	PR 24-SEP-1998;	98US-0101922P.
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PR 24-JUN-1998;	98US-0090433P.	PR 29-SEP-1998;	98US-0102207P.
PR 24-JUN-1998;	98US-0090444P.	PR 29-SEP-1998;	98US-0102240P.
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PR 25-JUN-1998;	98US-0090696P.	PR 06-OCT-1998;	98US-0103449P.
PR 26-JUN-1998;	98US-0090696P.	PR 07-OCT-1998;	98US-00168978.
PR 26-JUN-1998;	98US-0090741P.		
PR 26-JUN-1998;	98US-0090862P.		
PR 26-JUN-1998;	98US-0090863P.		
PR 01-JUL-1998;	98US-0091010P.		
PR 01-JUL-1998;	98US-0091544P.		
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PR 02-JUL-1998;	98US-0091628P.		
PR 02-JUL-1998;	98US-0091632P.		
PR 04-JUL-1998;	98US-0094006P.		
PR 04-AUG-1998;	98US-0095282P.		
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PR 10-AUG-1998;	98US-0095012P.		
PR 17-AUG-1998;	98US-0095757P.		
PR 17-AUG-1998;	98US-0095766P.		
PR 17-AUG-1998;	98US-0096867P.		
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PR 26-AUG-1998;	98US-0097955P.		
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PR 26-AUG-1998;	98US-0097974P.		
PR 26-AUG-1998;	98US-0098014P.		
PR 01-SEP-1998;	98US-0098716P.		
PR 02-SEP-1998;	98US-0098723P.		
PR 02-SEP-1998;	98US-0098803P.		

Query Match 98.7%; Score 1101; DB 6; Length 382;

Best Local Similarity 96.3%; Pred. No. 5.2e-103;

Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1	ATGRLLS-----GQPVCRGCTGTCPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI	52
Db 22	ATGRLLSASDLRLGQGPVCRGCTGTCPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI	81
Qy 53	ESEDEQKLEKIENLLPSDGFNGLRREKQNSTACQDLYAWTDGSIQFERNWYD	112
Db 82	ESEDEQKLEKIENLLPSDGFNGLRREKQNSTACQDLYAWTDGSIQFERNWYD	141
Qy 113	EPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSDKPAVPSREAGE	172
Db 142	EPSCGSEVCVMYHQPAPAGIGGPMFQWDDRCNMKNFICKYSDKPAVPSREAGE	201
Qy 173	ETELTTPVLPEETQEDAKTKFESREAAALNAY	206
Db 202	ETELTTPVLPEETQEDAKTKFESREAAALNAY	235

RESULT 14

ID ASU71613 standard; protein; 382 AA.

XX ASU71613;

XX 16-JUN-2003 (first entry)

XX Human PRO polypeptide #24.

XX

KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
 KW pathological disorder; cardiac insufficiency disorder; protein secretion;
 KW pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
 KW skin disease; keratinocyte differentiation; epithelial cancer; tumour;
 KW lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
 KW cystic; cardiac; endocrine; antidiabetic; gastrointestinal;
 KW antiulcer; dermatological; vulnary.
 XX Homo sapiens.
 XX US2002146709-A1.
 XX 10-OCT-2002.
 XX 18-JUL-2001; 2001US-00909088.
 PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059115P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059119P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
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 PR 21-OCT-1997; 97US-0063486P.
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 PR 24-OCT-1997; 97US-0062816P.
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 PR 24-OCT-1997; 97US-0063121P.
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 PR 24-OCT-1997; 97US-0063128P.
 PR 27-OCT-1997; 97US-0063327P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.
 PR 28-OCT-1997; 97US-0063544P.
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 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065693P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066468P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 01-DEC-1998; 98WO-US025108.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.
 PR 08-OCT-1999; 99WO-US023089.
 PR 28-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-00665350.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Klijavin IJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams FM, Wood WJ;
 XX WPI; 2003-328338/31.
 DR N-PSDB; ACA59008.
 DR Isolated nucleic acid useful for e.g., treating pathological disorders
 PT encodes a secreted or transmembrane protein.
 PT Claim 12; Fig 50; 479pp; English.
 XX The invention relates to human PRO polypeptides (secreted or
 CC transmembrane polypeptides) and the polynucleotides encoding them. The
 CC PRO polypeptides and polynucleotides can be used in treating pathological
 CC disorders and tumours, in therapeutic treatment of cardiac insufficiency
 CC disorders and in therapeutic treatment of disorders involving protein
 CC secretion by the pancreas, including diabetes. They can also be used in
 CC treating disorders associated with the preservation and maintenance of
 CC gastrointestinal mucosa and the repair of acute and chronic mucosal
 CC lesions, and skin diseases associated with abnormal keratinocyte
 CC differentiation (e.g., psoriasis, epithelial cancers such as lung
 CC squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
 CC The sequences can be used as molecular markers for protein
 CC electrophoresis purposes and can be utilised in protein-protein binding
 CC assays, biochemical screening assays, immunoassays and cell-based assays.
 CC This sequence represents a human PRO polypeptide of the invention
 XX SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
 Best Local Similarity 96.3%; Pred. No. 5, 2e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 ATGRLLS-----GQVCRGGTQPCVKYVIFHDTSRRLNFEAKEACRRDGGQLVSI 52
 DB 22 ATGRLLSASDLDRGGQPCVCRGGTQPCVKYVIFHDTSRRLNFEAKEACRRDGGQLVSI 81
 QY 53 ESEDEQKLIKFTIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 112
 DB 82 ESEDEQKLIKFTIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 141
 QY 113 EPSCGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNKNFKICKYDEKPAVPSREAGE 172
 DB 142 EPSCGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNKNFKICKYDEKPAVPSREAGE 201

QY 173 ETELTPVLPETQEDAKKTFKESREAALNAY 206
 Db 202 ETELTPVLPETQEDAKKTFKESREAALNAY 235

RESULT 15
 ABU87957
 ID ABU87957 standard; protein; 382 AA.
 AC ABU87957;
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 DT 07-JUL-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO234.
 XX Human; secreted and transmembrane protein; PRO; gene therapy;
 KW tumour necrosis factor-alpha release; TNF-alpha release;
 KW chondrocyte proliferation; chondrocyte differentiation; tumour;
 KW adrenal tumour; lung tumour; colon tumour; breast tumour;
 KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
 XX
 OS Homo sapiens.
 XX
 PN US2003032127-A1.
 XX
 PD 13-FEB-2003.
 XX
 XX 26-JUN-2002; 2002US-00183012.
 XX 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 28-OCT-1997; 97US-0063121P.
 PR 28-OCT-1997; 97US-0063540P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063544P.
 PR 28-OCT-1997; 97US-0063564P.
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 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
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 PR 17-DEC-1997; 97US-0069870P.
 PR 18-DEC-1997; 97US-0068017P.
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PR	18-AUG-1998;	98US-0097022P.
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PR	26-AUG-1998;	98US-0097954P.
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PR	01-SEP-1998;	98US-0098014P.
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PR	02-OCT-1998;	98US-0102965P.
PR	06-OCT-1998;	98US-0103258P.

Query Match 98.7%; Score 1101; DB 6; Length 382;
 Best Local Similarity 96.3%; Pred. No. 5.2e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY	1	ATGRLLS-----GQPCVCGGTGTCPCVKVIYPHDTGSRRLNFEEAKEACRRDGGQLVSI	52
Db	22	ATGRLLSASDLLRGQPCVCGGTGTCPCVKVIYPHDTGSRRLNFEEAKEACRRDGGQLVSI	81
QY	53	ESEDEQKLEFIENLLPSDGFWTGLRRREKQSNSTACQDLVANTDGSISQFRNWTVD	112
Db	82	ESEDEQKLEFIENLLPSDGFWTGLRRREKQSNSTACQDLVANTDGSISQFRNWTVD	141

QY	113	EPSCGSEVCVMYHOPSPAGIGGPMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE	172
Db	142	EPSCGSEVCVMYHOPSPAGIGGPMFQWDDRCNMKNFKICKYSDEKPAVPSREAGE	201
QY	173	ETELTTPVLPEETQBEDAKKTFKESREAAINLAY	206
Db	202	ETELTTPVLPEETQBEDAKKTFKESREAAINLAY	235

RESULT 16
 ABUS4272
 ID ABUS4272 standard; protein; 382 AA.
 AC ABUS4272;
 XX
 XX 02-AUG-2003 (first entry)
 DT
 DE Human secreted/transmembrane protein (PRO) #10.
 XX
 KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
 KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
 KW tissue typing.
 XX
 OS Homo sapiens.
 PN
 XX US2003032112-A1.
 XX
 PD 13-FEB-2003.
 XX
 PF 21-JUN-2002; 2002US-00176756.
 XX
 PR 18-SEP-1997; 97US-0059263P.
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PR	02-JUN-1998;	98US-0087609P.	PR	26-AUG-1998;	98US-0097955P.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;

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XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
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OS Homo sapiens.
XX
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PD 06-FEB-2003.
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 XX (GETH) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;

PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin LJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 XX Williams PM, Wood WI;
 DR WPI; 2003-361832/34.
 DR N-PSDB; ACA58405.
 XX
 PT New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
 PT PRO188, useful in molecular biology, chromosome and gene mapping, in
 PT generating antisense RNA and DNA, and in gene therapy.
 XX
 XX Claim 12; Fig 50; 474pp; English.
 PS
 CC The present invention relates to the isolation of novel human secreted
 CC and transmembrane proteins (PRO polypeptides), and the polynucleotide
 CC sequences encoding them. The polynucleotide sequences are useful in
 CC molecular biology, as hybridisation probes, in chromosome and gene
 CC mapping, in generating antisense RNA and DNA, and in gene therapy. The
 CC polynucleotide sequences may also be used in preparing PRO polypeptides
 CC by recombinant techniques, and in generating either transgenic animals or
 CC knock-out animals which, in turn, are useful in the development and
 CC screening of therapeutically useful reagents. The PRO polypeptides or
 CC their antibodies are useful in preparing a medicament for treating a
 CC condition responsive to the polypeptide or antibody, such as cancer,
 CC Alzheimer's disease or ischaemia, and in various diagnostic assays.
 CC ABU71445-ABU71505 represent human PRO polypeptides of the invention
 XX
 SQ Sequence 382 AA;
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 Best Local Similarity 96.3%; Pred. No. 5.2e-103;
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 Db 142 EPCGSEVCVMYHOPSAAGIGPYMFQWDDRCNKNKNNFICKYDKEKPAVPSRAEGE 201
 Qy 173 ETELTTPVLPEETQEDDAKTKFKESREAAALNLAY 206
 Db 202 ETELTTPVLPEETQEDDAKTKFKESREAAALNLAY 235
 RESULT 23
 ABR68085
 ID ABR68085 standard; protein; 382 AA.
 XX
 AC ABR68085;
 XX
 DT 11-AUG-2003 (first entry)
 XX Human secreted polypeptide PRO234, SEQ ID NO:20.
 KW Human; PRO; secreted protein; transmembrane protein;
 KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
 KW chondrocyte; proliferation; differentiation; cartilage disorder;
 KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
 KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
 KW liver; drug screening; transgenic animal; genetic analysis;
 KW antiarthritic; vulnery; gene therapy.
 OS Homo sapiens.
 XX
 XX US2003027264-A1.
 XX
 PD 06-FEB-2003.

XX	18-JUN-2002; 2002US-00174579.	PR	05-JUN-1998;	98US-0088217P.
PF		PR	09-JUN-1998;	98US-0088655P.
XX		PR	10-JUN-1998;	98US-0088722P.
PR	18-SEP-1997;	PR	10-JUN-1998;	98US-0088738P.
PR	18-SEP-1997;	PR	10-JUN-1998;	98US-0088740P.
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PR	29-APR-1998;	PR	02-JUL-1998;	98US-0091632P.
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PR	22-MAY-1998;	PR	18-AUG-1998;	98US-0096959P.
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PR	02-JUN-1998;	PR	26-AUG-1998;	98US-0097955P.
PR	02-JUN-1998;	PR	26-AUG-1998;	98US-0097971P.
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PR	04-JUN-1998;	PR	02-SEP-1998;	98US-0098803P.
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PR	05-JUN-1998;	PR	09-SEP-1998;	98US-0099602P.
PR	05-JUN-1998;	PR	10-SEP-1998;	98US-0099741P.

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PR	15-SEP-1998;	98US-0100388P.	PF		
PR	16-SEP-1998;	98US-0100662P.	XX		
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PR	16-SEP-1998;	98WO-US019330.	PR	17-OCT-1997;	97US-0062250P.
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PR	18-SEP-1998;	98US-0101068P.	PR	29-OCT-1997;	97US-0063734P.
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PR	23-SEP-1998;	98US-0101477P.	PR	13-NOV-1997;	97US-0065311P.
PR	24-SEP-1998;	98US-0101738P.	PR	21-NOV-1997;	97US-0066120P.
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PR	24-SEP-1998;	98US-0101922P.	PR	12-DEC-1997;	97US-0069335P.
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PR	01-OCT-1998;	98US-0102687P.	PR	04-JUN-1998;	98US-0088326P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 52
Db 22 ATGRLLSADLDLRCGQVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIEIENLLPSDGFWMGLRRRREKQSNSTACQDLYAWTDGSIQPRNWIYD 112
Db 82 ESEDEQKLIKFIEIENLLPSDGFWMGLRRRREKQSNSTACQDLYAWTDGSIQPRNWIYD 141
Qy 113 EPCSGSEVCVVMYHOPSPAGIGGPFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
Db 142 EPCSGSEVCVVMYHOPSPAGIGGPFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
Qy 173 ETELTPVLPETQEDAKTFKESREAAALNAY 206
Db 202 ETELTPVLPETQEDAKTFKESREAAALNAY 235

RESULT 24
ABU96138
ID ABU96138 standard; protein; 382 AA.
XX AC ABU96138;
XX XX
DT 25-JUL-2003 (first entry)
XX XX
DE Novel human secreted and transmembrane protein PRO234.
XX Human; secreted and transmembrane protein; PRO; transgenic animal;
KW knockout; chromosome identification; tissue typing; tumour;
KW chondrocyte proliferation; chondrocyte differentiation;
KW tumor necrosis factor-alpha release stimulator.
XX XX
OS Homo sapiens.
XX XX
PN US2003036144-A1.

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PR 05-JUN-1998; 98US-0088202P.
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PR 05-JUN-1998; 98US-0088217P.
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PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
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PR 18-JUN-1998; 98US-0089908P.
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PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
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PR 24-JUN-1998; 98US-0090435P.
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PR 17-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
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PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
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PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
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PR 16-SEP-1998; 98US-0101751P.
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PR 23-SEP-1998; 98US-0101471P.
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PR 25-SEP-1998; 98US-0101786P.
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PR 30-SEP-1998; 98US-0102571P.
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PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGQTQPCYKVIYFHDTSRRLNFEBAKACRDGGQLVSI 52
Db 22 ATGRLLSASDLRGQPCVCRGQTQPCYKVIYFHDTSRRLNFEBAKACRDGGQLVSI 81
Qy 53 ESEDEQKLEKFIENLLPSDGFNIGLRREBEKQSNSTACQDIYAWTQSGISQFRNWYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFNIGLRREBEKQSNSTACQDIYAWTQSGISQFRNWYVD 141
Qy 113 EPSCGSEVCVMYHQPAPAGIGGYPMFQWDDRCNMKNFNICKYSDKPAVPSREASGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGYPMFQWDDRCNMKNFNICKYSDKPAVPSREASGE 201
Qy 173 ETELTPVLPEETQEDAKKTFKESREAAALNAY 206
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNAY 235

RESULT 25
ABU92569
ID ABU92569 standard; protein; 382 AA.
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AC ABU92569;
XX
DT 18-JUL-2003 (first entry)
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DE Human secreted/transmembrane protein (PRO) #10.
XX
KW Human; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cell; TNF-alpha;
KW tumour necrosis factor-alpha; gene therapy.

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PR 09-SEP-1998;	98US-0099602P.	KW	tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
PR 10-SEP-1998;	98US-0099741P.	KW	prostate tumour; rectal tumour; cervical tumour; liver tumour.
PR 10-SEP-1998;	98US-0099754P.	XX	
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PR 10-SEP-1998;	98US-0099812P.	XX	
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DB 82	ESEDEQKLEKTIENLLPSDGFHWGLRRREKQSNSTACQDLYAWTDGSIQSFNWTVD 141		
QY 113	EPSCGSECVVYHQSAPAGIGGYPFQWDDRCNMKNFKICKYSDKPAVPSREAGE 172		
DB 142	EPSCGSECVVYHQSAPAGIGGYPFQWDDRCNMKNFKICKYSDKPAVPSREAGE 201		
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DT DT	17-AUG-2003 (first entry)		
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PR	04-JUN-1998;	98US-0088028P.
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Best Local Similarity 96.3%; Pred. No. 5,2e-103;		
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Qy	113	EPSCGSEVCVMYHQPSAPAGIGGPFYMFQNDRCNMKNFIKYSDEKPAVPSRAEGE 172
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ID ABO02698 standard; protein; 382 AA.		

XX ABO2698;
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XX 09-AUG-2003 (first entry)
DT
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DE
XX Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
XX US2003040062-A1.
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XX 27-FEB-2003.
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XX 25-JUN-2002; 2002US-00180545.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;
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Db 202 ETELTPVLPETQEDAKKTKESREAAINLAY 235
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RESULT 28

ABR74852
ID ABR74852 standard; protein; 382 AA.

XX AC ABR74852;

XX DT 10-SEP-2003 (first entry)

XX DE Human secreted polypeptide PRO234, SEQ ID NO:20.

XX KW Human; PRO; secreted protein; transmembrane protein;
XX KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX KW chondrocyte; proliferation; differentiation; cartilage disorder;
XX KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX KW liver; drug screening; transgenic animal; genetic analysis;
XX KW antiarthritic; vulnery; gene therapy.

OS Homo sapiens.

XX PN US2003040056-A1.

XX PD 27-FEB-2003.

XX PF 21-JUN-2002; 2002US-00176916.

XX PR 18-SEP-1997; 97US-0059263P.

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XX PR 21-OCT-1997; 97US-0062250P.

XX PR 24-OCT-1997; 97US-0063486P.

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Conservative

Mismatches

Indels

Gaps

Length

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96.3%

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172

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XX AC ABR94614;
XX DT 13-SEP-2003 (first entry)
XX DE Human secreted polypeptide.PRO234, SEQ ID NO:20.
XX KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor:alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; Genetic analysis;
KW antiarthritic; vulnerary; gene therapy.
XX OS Homo sapiens.
XX FN US2003044926-A1.
XX PD 06-MAR-2003.
XX PF 26-JUN-2002; 2002US-00183015.
XX PR 18-SEP-1997; 97US-0059263P.
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18-SEP-2000; 2000US-00664610.
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PR 08-NOV-2000; 2000US-00709238.
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PR 28-AUG-2001; 2001US-009411992.
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PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
PA (GETH) GENENTECH INC.
XX Baker KP, Chen J, Deanoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-332028/31.
DR N-PSDB; ACA72780.
XX
XX Three hundred and five nucleic acids encoding PRO polypeptides, useful
PT for the manufacture of a medicament for diagnosing or treating tumor.
XX
XX Claim 11; Fig 20; 707pp; English.
XX The invention relates to human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the PRO polynucleotides encoding them.
CC The invention also relates to a method for stimulating the release of
CC tumour necrosis factor alpha (TNF-alpha) from human blood by contacting
CC the blood with a sequence of the invention, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells by contacting the
CC cells with a PRO polypeptide and a method for detecting the presence of a
CC tumour in a mammal. The polypeptides and polynucleotides are useful for
CC the manufacture of a medicament for diagnosing or treating a tumour in a
CC mammal. Sequences ABUS5578-ABUS5882 represent human PRO polypeptides of
CC the invention. Note: The sequence data for this patent is also available
CC in electronic format from USPTO at seqdata.uspto.gov/sequence.html
XX
SQ Sequence 382 AA;
Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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DB 142 EPCSGSEVCVMYHQSPAPAGIGGPPYMFQWNNDRCKMKNFICKYSDERKPAVPSREAGE 201
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Db 202 ETELTPVLPEETQEDDAKTKFESREALNLAY 235
RESULT 31
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ID ABU98747 standard; protein; 382 AA.
XX
AC ABU98747;
XX
DT 01-AUG-2003 (first entry)
XX
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XX
KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; tumour; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; TNF-alpha release;
KW tumour necrosis factor alpha release; chondrocyte cell proliferation;
KW chondrocyte cell differentiation; pharmaceutical; diagnostic; biosensor;
KW bioreactor.
XX
OS Homo sapiens.
XX
PN US2003013153-A1.
XX
PD 16-JAN-2003.
XX
PF 19-JUN-2002; 2002US-00175737.
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PR 18-SEP-1997; 97US-0059263P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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QY 53 ESEDEOKLIEFIENLLPSDGFWIGLRREEKQSNSTACODLYAWTDGSIQFRNMYVD 112
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QY 113 EPSCGSEVCVVMYHQPSAPAGIGGPFQWDDNCKMKNFICKYSDEKPAVPREAEGE 172

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Db 142 EPCSGSEVVMHQBPAGIGPYNFQWDDRCNNKNNFICKYSDEKPAVPSREABGE 201
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Db 202 ETELTTPVLPEETQEDAKTKFKESREAAALNLAY 235
RESULT 32
ABU97962
ID ABU97962 standard; protein; 382 AA.
AC ABU97962;
XX 30-JUN-2003 (first entry)
DE Novel human secreted and transmembrane protein PRO234.
XX Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; tumour; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; chromosome identification.
XX Homo sapiens.
OS
XX US2003017544-A1.
XX 23-JAN-2003.
XX 21-JUN-2002; 2002US-00176915.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;
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RESULT 33
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 XX AC ABU91668;
 XX DT 11-AUG-2003 (first entry)
 XX DE Novel human secreted and transmembrane protein PRO234.
 XX KW Human; gene therapy; chromosome identification; tissue typing.
 XX OS Homo sapiens.
 XX PN US2003027277-A1.
 XX DD 06-FEB-2003.
 XX FF 21-JUN-2002; 2002US-00176985.
 XX PR 18-SEP-1997; 97US-0059263P.
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PR 06-OCT-1998;	98US-0103258P.
PR 06-OCT-1998;	98US-0103449P.
PR 07-OCT-1998;	98US-00168978.
PR 07-OCT-1998;	98US-0103395P.
PR 07-OCT-1998;	98US-0103401P.

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5,2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----COPVCRGCTQPCVKYVYFHDTSRLNFEAKACRBDGGOLYSI 52
 Db 22 ATGRLLSASDLRGQPPVCRGCTQPCVKYVYFHDTSRLNFEAKACRBDGGOLYSI 81
 QY 53 ESEDECKLIEKFTENLLPSDGFWIGLRRERKQSNSTACQDLYAWTDGSIQSPFNWYVD 112
 Db 82 ESEDECKLIEKFTENLLPSDGFWIGLRRERKQSNSTACQDLYAWTDGSIQSPFNWYVD 141
 QY 113 EPGSGSEVCMVYHQPSAPAGIGPVMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 172
 Db 142 EPGSGSEVCMVYHQPSAPAGIGPVMFQWDDRCNMKNFKICKYSDKPAVPSREAGE 201
 QY 173 ETELTPVLPEETOEDAKTKFESREAAALNLAY 206
 Db 202 ETELTPVLPEETOEDAKTKFESREAAALNLAY 235

RESULT 34
 ABU71914
 ID ABU71914 standard; protein; 382 AA.
 AC ABU71914;

XX 12-JUN-2003 (first entry)

DE Human secreted/transmembrane protein PRO234.
 KW Human; secreted protein; transmembrane protein; PRO; gene therapy;
 KW chromosome identification; chromosome marker.

XX Homo sapiens.

XX US2003003530-A1.

XX 02-JAN-2003.

PF 11-JUL-2001; 2001US-00904011.

XX 17-SEP-1997; 97US-0059113P.

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PR 17-SEP-1997; 97US-0059117P.

PR 17-SEP-1997; 97US-0059119P.

PR 17-SEP-1997; 97US-0059121P.

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PR 17-SEP-1997; 97US-0059184P.

PR 18-SEP-1997; 97US-0059263P.

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PR 17-OCT-1997; 97US-0062285P.

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PR 24-OCT-1997; 97US-0062816P.

PR 24-OCT-1997; 97US-0063045P.

PR 24-OCT-1997; 97US-0063120P.

PR 24-OCT-1997; 97US-0063121P.

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PR 29-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065693P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
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 PR 24-NOV-1997; 97US-0066772P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 01-DEC-1998; 98WO-US025108.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
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 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
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 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 24-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000WO-US026530.

(GETH) GENENTECH INC.

Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kijavini LJ;
 Mather JP, Pan J, Faoni NF, Roy MA, Stewart TA, Tumas D;
 Williams PM, Wood WI;

WPI; 2003-329602/31.
 N-PSDB; ACA60112.

New transmembrane polypeptides and nucleic acids encoding the
 polypeptides, useful in gene therapy, in chromosome identification, as
 chromosome markers, in generating probes and in tissue typing.

Claim 12; Fig 50; 484pp; English.

The invention relates to an isolated nucleic acid with at least 80%
 nucleic acid sequence identity to a nucleotide sequence encoding one of
 61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
 PRO protein extracellular domain. Also included are a vector comprising
 the PRO nucleic acid, a host cell comprising the vector, producing a PRO
 polypeptide (by culturing the host cell for the expression of the PRO
 polypeptide, and recovering the PRO polypeptide from the cell culture),
 an isolated PRO polypeptide (having at least 80% sequence identity to:
 a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
 acid sequence encoded by a nucleic acid molecule deposited with an ATCC

CC number (detailed in the specification); or (c) an extracellular domain of
CC a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC peptide, a chimeric molecule comprising a PRO polypeptide of fused to a
CC heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC modulating at least one biological activity of a cell expressing a PRO245
CC or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC transgenic animals or knock-out animals which may be used in the
CC development and screening of therapeutically useful reagents. The nucleic
CC acids may also be used in gene therapy, in chromosome identification, as
CC chromosome markers, or in generating probes. The PRO polypeptides are
CC useful as molecular markers for protein electrophoresis, and the isolated
CC nucleic acids may be used for recombinantly expressing those markers. The
CC PRO polypeptides and nucleic acids may also be used in tissue typing.
CC Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC affinity purification of PRO from recombinant cell culture or natural
CC sources. The present sequence represents a PRO protein
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103; Mismatches 0; Indels 8; Gaps 1;
Matches 206; Conservative 0;
QY 1 ATGRLLS-----GQVCRGQTQPCVKVIYFHTSRRLNFEFAKACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGQPCVCRGQTQPCVKVIYFHTSRRLNFEFAKACRRDGGQLVSI 81
QY 53 ESEDEQKLEKIENLLPSDGFWGLRRREKQNSACQDLYAWTDGSIQFENWYVD 112
DB 82 ESEDEQKLEKIENLLPSDGFWGLRRREKQNSACQDLYAWTDGSIQFENWYVD 141
QY 113 EPCSGSEVCVMVHQPSPAGIGGPMFQWDDRCNMKNFKICKYSDKPAVPSPSEARGE 172
DB 142 EPCSGSEVCVMVHQPSPAGIGGPMFQWDDRCNMKNFKICKYSDKPAVPSPSEARGE 201
QY 173 ETELTPVLPEETQBEDAKKTPKESREAAINLAY 206
DB 202 ETELTPVLPEETQBEDAKKTPKESREAAINLAY 235

RESULT 35

ABU89361
ID ABU89361 standard; protein; 382 AA.
XX
AC ABU89361;
DT 09-JUL-2003 (first entry)
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DE Human PRO polypeptide #10.
XX
KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;
KW prostate; rectal; cervical; liver; cancer; TNF-alpha;
KW tumour necrosis factor-alpha; proliferation; differentiation;
KW chondrocyte cell; bone disorder; cartilage disorder; sports injury;
KW arthritis; cytostatic; antiarthritic; osteopathic.
XX
OS Homo sapiens.
XX
PN US2003036141-A1.
XX
PD 20-FEB-2003.
XX
XX 01-JUL-2002; 2002US-00187597.
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XX 18-SEP-1997; 97US-0059263P.
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PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.

PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
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PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
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PR 10-JUN-1998; 98US-0088826P.


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OS Homo sapiens.
XX US2003036162-A1.
XX PD 20-FEB-2003.
XX PF 12-JUL-2002; 2002US-00194423.
XX PR 26-JUN-1998; 98US-00105413.
XX PR 16-SEP-1998; 98WO-US019330.
XX PR 07-OCT-1998; 98US-00158978.
XX PR 07-OCT-1998; 98WO-US021141.
XX PR 06-NOV-1998; 98US-00187368.
XX PR 01-DEC-1998; 98WO-US025108.
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XX PR 03-MAR-1999; 98US-00254311.
XX PR 08-MAR-1999; 98WO-US005028.
XX PR 14-MAY-1999; 98US-00311832.
XX PR 14-MAY-1999; 98WO-US010733.
XX PR 02-JUN-1999; 98WO-US012252.
XX PR 25-AUG-1999; 98US-00380137.
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XX PR 25-AUG-1999; 98US-00380139.
XX PR 25-AUG-1999; 98US-00380142.
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XX PR 15-SEP-1999; 98WO-US021090.
XX PR 18-OCT-1999; 98US-00403297.
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XX PR 30-DEC-1999; 98WO-US031274.
XX PR 05-JAN-2000; 2000WO-US000219.
XX PR 18-FEB-2000; 2000WO-US004341.
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XX PR 02-MAR-2000; 2000WO-US005841.
XX PR 15-MAR-2000; 2000WO-US006884.
XX PR 30-MAR-2000; 2000WO-US008439.
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XX PR 22-MAY-2000; 2000WO-US014042.
XX PR 30-MAY-2000; 2000WO-US014941.
XX PR 02-JUN-2000; 2000WO-US015264.
XX PR 28-JUL-2000; 2000WO-US020710.
XX PR 24-AUG-2000; 2000US-00644848.
XX PR 24-AUG-2000; 2000WO-US023328.
XX PR 18-SEP-2000; 2000US-00664610.
XX PR 18-SEP-2000; 2000US-00665350.
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XX PR 20-DEC-2000; 2000WO-US034956.
XX PR 28-FEB-2001; 2001WO-US006520.
XX PR 22-MAR-2001; 2001US-00816744.
XX PR 10-MAY-2001; 2001US-00854208.
XX PR 10-MAY-2001; 2001US-00854280.
XX PR 25-MAY-2001; 2001US-00866028.
XX PR 01-JUN-2001; 2001WO-US017800.
XX PR 05-JUN-2001; 2001US-00874503.
XX PR 20-JUN-2001; 2001WO-US019692.
XX PR 29-JUN-2001; 2001WO-US021066.
XX PR 09-JUL-2001; 2001WO-US021735.
XX PR 18-JUL-2001; 2001US-00906827.
XX PR 30-JUL-2001; 2001US-00918585.
XX PR 06-AUG-2001; 2001US-00924419.
XX PR 13-AUG-2001; 2001US-00929404.
XX PR 16-AUG-2001; 2001US-00931836.
XX PR 28-AUG-2001; 2001US-00941992.
XX PR 29-AUG-2001; 2001WO-US027099.
XX PR 04-SEP-2001; 2001US-00946374.
XX PR 15-JAN-2002; 2002US-00052586.

XX PA (GETH ) GENENTECH INC.
XX PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX DR WPI; 2003-332039/31.
XX DR N-PSDB; ACA05709.
XX PT New secreted and transmembrane PRO polypeptides and nucleic acids, useful
XX PT in gene therapy, in chromosome and gene mapping, as chromosome markers,
XX PT in tissue typing, and in chromosome identification.
XX PS Claim 11; Fig 20; 706pp; English.
XX CC The invention discloses human nucleic acids encoding secreted and
XX CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that
XX CC specifically binds to the PRO polypeptide, a method for stimulating the
XX CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by
XX CC contacting the blood a PRO polypeptide, a method for stimulating the
XX CC proliferation or differentiation of chondrocyte cells by contacting the
XX CC cells with a PRO polypeptide, a method for detecting the presence of a
XX CC tumour in a mammal and an oligonucleotide probe derived from any of the
XX CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,
XX CC in chromosome and gene mapping, in generating antisense RNA and DNA, in
XX CC preparing PRO polypeptides by recombinant techniques and in gene therapy
XX CC (e.g. for replacement of defective gene). The PRO polypeptides are useful
XX CC as molecular weight markers for protein electrophoresis purposes, for
XX CC chromosome identification, as chromosome markers, as therapeutic agents,
XX CC for stimulating the release of TNF-alpha from human blood, for
XX CC stimulating the proliferation or differentiation of chondrocytes and
XX CC detecting the presence of a tumour. The PRO polypeptides and nucleic
XX CC acids may also be used diagnostically for tissue typing. The sequences
XX CC presented in ABU67406-ABU67710 are the PRO polypeptides of the invention
XX SQ Sequence 382 AA;
Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 52
Db 22 ATGRLLSADLIRGGQPCVCRGGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI 81
QY 53 ESEDEOKLIEKIENLLPSDGFWIGLRRERKQNSTACQDLVYAWTDGSIQGFNYYVD 112
Db 82 ESEDEOKLIEKIENLLPSDGFWIGLRRERKQNSTACQDLVYAWTDGSIQGFNYYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGPPYFQWMDRCKMKNFICKYSDKPAVPSREAGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGPPYFQWMDRCKMKNFICKYSDKPAVPSREAGE 201
QY 173 ETELTTPVLPEETOEDAKTKESREAAINLAY 206
Db 202 ETELTTPVLPEETOEDAKTKFESREAAINLAY 235
RESULT 38
ABU80443
ID ABU80443 standard; protein; 382 AA.
XX AC ABU80443;
XX DT 23-JUN-2003 (first entry)
XX DE Human PRO protein #10.
XX XX Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
XX KW liver; PRO; gene therapy.
XX OS Homo sapiens.

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PN US2003036137-A1.
XX 20-FEB-2003.
XX 27-JUN-2002; 2002US-00184640.
XX 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 98US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015284.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-FEB-2001; 2001WO-US005520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854268.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021056.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941932.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
PA (GETH) GENENTECH INC.

XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI: 2003-342038/32.
XX N-PSDB; ACA66543.
XX Three hundred and five nucleic acids encoding secreted and transmembrane
PT PRO polypeptides, useful for the diagnosis, prevention and/or treatment
PT of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
PT cervical or liver tumors.
XX Claim 11; Fig 20; 708pp; English.
XX The invention relates to three hundred and five nucleic acids encoding
CC PRO polypeptides (secreted and transmembrane). Methods and compositions
CC of the present invention are useful for the diagnosis, prevention and/or
CC treatment of tumors, such as adrenal, lung, colon, breast, prostate,
CC rectal, cervical or liver tumors. The PRO polypeptides are also useful
CC as molecular weight markers, or for chromosome identification. The PRO
CC genes are useful as hybridisation probes, or for screening libraries of
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. The present
CC sequence represents a human PRO polypeptide of the invention
XX SQ Sequence 382 AA;
Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. NO. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCVKYVYFHDTSRLNFEFEAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQPCVCRGGTQPCVKYVYFHDTSRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEOKLIEKFTIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIISQFRWYVD 112
DB 82 ESEDEOKLIEKFTIENLLPSDGFWIGLRREKQSNSTACQDLYAWTDGSIISQFRWYVD 141
QY 113 EPSCGSEVCVMYHOPSAFAGIGGYPWFQWDDRCNKNFNICKYSDKPAVPSREAGE 172
DB 142 EPSCGSEVCVMYHOPSAFAGIGGYPWFQWDDRCNKNFNICKYSDKPAVPSREAGE 201
QY 173 ETELTTPVLPEETQEDAKTKTFKESREAAALNLAY 206
DB 202 ETELTTPVLPEETQEDAKTKTFKESREAAALNLAY 235
RESULT 39
ABO01797
ID ABO01797 standard; protein; 382 AA.
XX AC ABO01797;
XX DT 07-AUG-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO234.
XX KW Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW diagnostic; biosensor; bioreactor; Parkinson's disease;
KW Alzheimer's disease; inflammation; nephritis; wound healing;
KW nerve repair; collateral blood vessel formation; cancer;
KW colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
XX infertility; gene therapy.
XX OS Homo sapiens.
XX US2002197671-A1.
XX 26-DEC-2002.
XX

RESULT 40
ABR99361
ID ABR99361 standard; protein; 382 AA.
XX
AC ABR99361;
XX
DT 18-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO234, SEQ ID NO:20.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
OS Homo sapiens.
XX
FN US2003040063-A1.
XX
PD 27-FEB-2003.
XX
PF 26-JUN-2002; 2002US-00183006.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069333P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081193P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
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PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
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PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
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PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091444P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.

QY	173	ETELTTPVLPEETQEDAKKTFKESREALNLAY	206
DB	202	ETELTTPVLPEETQEDAKKTFKESREALNLAY	235
RESULT 41			
ID	ABR98751	standard; protein; 382 AA.	
XX	AC	ABR98751;	
XX	DT	17-SEP-2003 (first entry)	
XX	DE	Human secreted polypeptide PRO234, SEQ ID NO:20.	
XX	KW	Human; PRO; secreted protein; transmembrane protein; extracellular domain; tumour necrosis factor-alpha; TNF-alpha; chondrocyte; proliferation; differentiation; cartilage disorder; bone disorder; arthritis; sports injury; cancer; diagnosis; adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix; liver; drug screening; transgenic animal; genetic analysis; antiarthritic; vulnery; gene therapy.	
OS		Homo sapiens.	
PN		US2003040064-A1.	
XX	PD	27-FEB-2003.	
XX	PF	26-JUN-2002; 2002US-00183008.	
XX	PR	18-SEP-1997; 97US-0059263P.	
PR	PR	18-SEP-1997; 97US-0059266P.	
PR	PR	17-OCT-1997; 97US-0062250P.	
PR	PR	21-OCT-1997; 97US-0063486P.	
PR	PR	24-OCT-1997; 97US-0063120P.	
PR	PR	24-OCT-1997; 97US-0063121P.	
PR	PR	28-OCT-1997; 97US-0063540P.	
PR	PR	28-OCT-1997; 97US-0063541P.	
PR	PR	28-OCT-1997; 97US-0063544P.	
PR	PR	28-OCT-1997; 97US-0063564P.	
PR	PR	29-OCT-1997; 97US-0063734P.	
PR	PR	31-OCT-1997; 97US-0063870P.	
PR	PR	31-OCT-1997; 97US-0064103P.	
PR	PR	13-NOV-1997; 97US-0065311P.	
PR	PR	21-NOV-1997; 97US-0066120P.	
PR	PR	24-NOV-1997; 97US-0066466P.	
PR	PR	24-NOV-1997; 97US-0066772P.	
PR	PR	11-DEC-1997; 97US-0069335P.	
PR	PR	12-DEC-1997; 97US-0069425P.	
PR	PR	17-DEC-1997; 97US-0069870P.	
PR	PR	18-DEC-1997; 97US-0068017P.	
PR	PR	10-MAR-1998; 98US-0077450P.	
PR	PR	11-MAR-1998; 98US-0077632P.	
PR	PR	11-MAR-1998; 98US-0077649P.	
PR	PR	20-MAR-1998; 98US-0078886P.	
PR	PR	20-MAR-1998; 98US-0078939P.	
PR	PR	27-MAR-1998; 98US-0079664P.	
PR	PR	27-MAR-1998; 98US-0079786P.	
PR	PR	31-MAR-1998; 98US-0080107P.	
PR	PR	31-MAR-1998; 98US-0080194P.	
PR	PR	01-APR-1998; 98US-0080327P.	
PR	PR	01-APR-1998; 98US-0080333P.	
PR	PR	08-APR-1998; 98US-0081049P.	
PR	PR	08-APR-1998; 98US-0081070P.	
PR	PR	09-APR-1998; 98US-0081195P.	
PR	PR	15-APR-1998; 98US-0081838P.	
PR	PR	21-APR-1998; 98US-0082568P.	
PR	PR	21-APR-1998; 98US-0082569P.	
PR	PR	22-APR-1998; 98US-0082704P.	
PR	PR	22-APR-1998; 98US-0082797P.	
PR	PR	28-APR-1998; 98US-0083222P.	
Query Match 98.7%; Score 1101; DB 6; Length 382;			
Best Local Similarity 96.3%; Pred. No. 5, 2e-103;			
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;			
QY	1	ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEAKACRRDGGQLVSI 52	
DB	22	ATGRLLSADLRLGQVPCRGGTQPCYKVIYFHDTSRRLNFEAKACRRDGGQLVSI 81	
QY	53	ESEDEKLIKIEINLLPSDGFNIGLRRBEKQSNSTACQDLVYAWTDGSIQSFRNYYVD 112	
DB	82	ESEDEKLIKIEINLLPSDGFNIGLRRBEKQSNSTACQDLVYAWTDGSIQSFRNYYVD 141	
QY	113	EPSCGSEVCVMYHQPSPAGITGGPYMFQWDDRCNMKNFIKYSDEKPAVPREAGE 172	
DB	142	EPSCGSEVCVMYHQPSPAGITGGPYMFQWDDRCNMKNFIKYSDEKPAVPREAGE 201	

QY 173 ETELTTPVLPEETQEDDAKKTFSKESREAAALNLAY 206
 DB 202 ETELTTPVLPEETQEDDAKKTFSKESREAAALNLAY 235

RESULT 41

ABR98751
 ID ABR98751 standard; protein; 382 AA.
 XX AC ABR98751;
 XX 17-SEP-2003 (first entry)
 XX Human secreted polypeptide PRO234, SEQ ID NO:20.
 XX Human; PRO; secreted protein; transmembrane protein;
 KW extracellular domain; tumor necrosis factor-alpha; TNF-alpha;
 KW chondrocyte; proliferation; differentiation; cartilage disorder;
 KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
 KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
 KW liver; drug screening; transgenic animal; genetic analysis;
 KW antiarthritic; vulnery; gene therapy.

OS Homo sapiens.
 XX US2003040064-A1.
 XX 27-FEB-2003.
 XX 26-JUN-2002; 2002US-00183008.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 28-OCT-1997; 97US-0063121P.
 PR 28-OCT-1997; 97US-0063540P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063544P.
 PR 28-OCT-1997; 97US-0063564P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 11-DEC-1997; 97US-0069335P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 17-DEC-1997; 97US-0069870P.
 PR 18-DEC-1997; 97US-0068017P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 20-MAR-1998; 98US-0078866P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080333P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 09-APR-1998; 98US-0081195P.
 PR 15-APR-1998; 98US-0081838P.
 PR 21-APR-1998; 98US-0082568P.
 PR 21-APR-1998; 98US-0082569P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0082797P.
 PR 28-APR-1998; 98US-0083322P.

PR 29-APR-1998; 98US-0083495P.
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PR 29-APR-1998; 98US-0083436P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
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PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
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PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
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PR 10-JUN-1998; 98US-0087722P.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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Db 142 EPCSGSEVCVMYHQSAPAGIGGPPYMFOWNDRCNMKNFKCKYSDEKPAVPSREAGE 201
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Db 202 ETELTPVLPEETOEDAKKTKESREAAALNAY 235

RESULT 42

ABO16274

ID ABO16274 standard; protein; 382 AA.

XX AC ABO16274;

XX DT 25-AUG-2003 (first entry)

XX DE Human secreted/transmembrane protein (PRO) #10.

XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.

OS Homo sapiens.

XX PN US2003027267-A1.

XX PD 06-FEB-2003.

XX PF 19-JUN-2002; 2002US-00175739.

XX PR 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

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PR 26-JUN-1998; 98US-0090863P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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Db	142	EPSCGSEVCVMYHQPAPAGIGGPFMFQWDDRCNMKNFICKYSDEKPAVPSREAGE	201
QY	173	ETELTPVLPEETOEDAKTKESREANLAY	206
Db	202	ETELTPVLPEETOEDAKTKESREANLAY	235
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KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;		
KW	chondrocyte; proliferation; differentiation; cartilage disorder;		
KW	bone disorder; arthritis; sports injury; cancer; diagnosis;		
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;		
KW	liver; drug screening; transgenic animal; genetic analysis;		
KW	antiarthritic; vulnery; gene therapy.		
OS	Homo sapiens.		
XX	US2003036160-A1.		
PN	20-FEB-2003.		
XX	02-JUL-2002; 2002US-00188781.		
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PR	20-MAR-1998;	98US-0078886P.	
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PR	05-JUN-1998;	98US-0088167P.	PR	02-SEP-1998;	98US-0088803P.
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PR	05-JUN-1998;	98US-0088212P.	PR	02-SEP-1998;	98US-0088843P.
PR	05-JUN-1998;	98US-0088217P.	PR	02-SEP-1998;	98US-0088843P.
PR	09-JUN-1998;	98US-0088655P.	PR	10-SEP-1998;	98US-0089741P.
PR	10-JUN-1998;	98US-0088722P.	PR	10-SEP-1998;	98US-0089754P.
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PR	10-JUN-1998;	98US-0088740P.	PR	10-SEP-1998;	98US-0089812P.
PR	10-JUN-1998;	98US-0088811P.	PR	15-SEP-1998;	98US-0100338P.
PR	10-JUN-1998;	98US-0088824P.	PR	16-SEP-1998;	98US-0100662P.
PR	10-JUN-1998;	98US-0088825P.	PR	16-SEP-1998;	98US-0100664P.
PR	10-JUN-1998;	98US-0088826P.	PR	16-SEP-1998;	98US-0101751P.
PR	11-JUN-1998;	98US-0088861P.	PR	16-SEP-1998;	98US-0101751P.
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Query Match          98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
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RESULT 44
ABO18815
ID ABO18815 standard; protein; 382 AA.
XX
AC ABO18815;
XX
DT 30-AUG-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #10.
XX
KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003044925-A1.
XX
PD 06-MAR-2003.
XX
PF 25-JUN-2002; 2002US-00180560.
XX
PR 18-SEP-1997; 97US-0059263P.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDIYAWTDGSIQFRNYYVD 141
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Qy 173 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 45
ABR78236
ID ABR78236 standard; protein; 382 AA.
XX AC ABR78236;
XX DT 19-SEP-2003 (first entry)
XX DE Human secreted polypeptide PRO234, SEQ ID NO:20.
XX KW Human; PRO; secreted protein; transmembrane protein;
extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
chondrocyte; proliferation; differentiation; cartilage disorder;
bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
liver; drug screening; transgenic animal; genetic analysis;
antiarthritic; vulnery; gene therapy.
XX OS Homo sapiens.
XX PN US2003054474-A1.
XX PD 20-MAR-2003.
XX PF 22-JUL-2002; 2002US-00201530.
XX PR 22-JUN-1998; 98US-0090254P.
XX PR 02-JUN-1999; 98US-0090254P.
XX PR 25-AUG-1999; 99US-00380137.
XX PR 28-FEB-2001; 2001US-0006520.
XX PR 15-JAN-2002; 2002US-00052586.
XX PA (GETH ) GENENTECH INC.
XX PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WP1; 2003-503631/47.
XX DR N-PSDB; ACF00109.
XX PT New secreted and transmembrane PRO polypeptides and nucleic acids, useful
in gene therapy, or for preparing a medicament for treating a condition
that is responsive to the PRO polypeptide or anti-PRO antibody.
XX Claim 11; Fig 20; 700pp; English.
XX The invention relates to human PRO secreted/transmembrane polypeptides
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CC (ABR78227-ABR78531) and nucleic acids encoding them (ACF00100-00404). The
CC invention also relates to sequences at least 80% identical to the PRO
CC nucleic acid and polypeptide sequences of the invention, recombinant
CC vectors and host cells comprising a PRO nucleic acid, a method for the
CC recombinant production of a PRO polypeptide, antibodies against a PRO
CC polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic
CC acids encoding PRO polypeptides of the invention were initially
CC identified via homology screening using consensus sequences based on the
CC extracellular domain sequences of known secreted proteins. Human cDNA
CC libraries containing sequences of interest were identified using
CC oligonucleotides based on the consensus sequences, and cDNA clones were
CC isolated and characterised. The PRO polypeptides are useful for
CC stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
CC human blood and may thus be used in the treatment of conditions in which
CC enhanced TNF-alpha release would be beneficial. They are also useful for
CC stimulating the proliferation or differentiation of chondrocytes and as
CC such may be used in the treatment of various bone and/or cartilage
CC disorders such as arthritis and sports injuries. The PRO polypeptides may
CC be used in a method for detecting the presence of a tumour (e.g., an
CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
CC method involves comparing the level of expression of the PRO polypeptide
CC in test and control samples, where a higher level of expression of PRO
CC polypeptide in the test sample as compared to the control sample is
CC indicative of the presence of a tumour. The PRO polypeptides are
CC additionally useful for in drug screening to identify agonists and
CC antagonists of PRO polypeptides. PRO nucleic acids are useful as
CC hybridisation probes (for isolation of cDNA molecules), in chromosome and
CC gene mapping, in the generation of antisense RNA and DNA and in gene
CC therapy. The nucleic acids can also be used for mapping genes encoding
CC PRO polypeptides, for genetic analysis of individuals with genetic
CC disorders, and for generating either transgenic animals or knock-out
CC animals which are useful in the development and screening of
CC therapeutically useful compounds. Sequences ABR78227-ABR78531 represent
CC the human PRO secreted/transmembrane polypeptides of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html

XX Sequence 382 AA;
SQ Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5, 2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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DB 22 ATGRLLSASDLRLGQPVCRGTRPCYKVIYFHDTSRRINFEEAKACRRDGGQLVSI 81
QY 53 ESEDEKLEKLENIPLSDGDFWGLRRREKQSNSTACQDLVATWDTGSIQFENWYVD 112
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QY 113 EPSCGSEVVMYHQSAPAGIGGPFYMFQWDDRCNMKNFICKYSDKPAVPSREAEGE 172
DB 142 EPSCGSEVVMYHQSAPAGIGGPFYMFQWDDRCNMKNFICKYSDKPAVPSREAEGE 201
QY 173 ETELTPVLPHTQEDAKKTFKESREAAALNLAY 206
DB 202 ETELTPVLPHTQEDAKKTFKESREAAALNLAY 235

RESULT 46
ABU84972
ID ABU84972 standard; protein; 382 AA.
AC ABU84972;
XX AC
XX 30-JUN-2003 (first entry)
DT DT
XX DT
XX DE Novel human secreted and transmembrane protein PRO234.
XX Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; chromosome mapping; gene mapping;

KW transgenic animal; knock-out animal; tumour.
XX Homo sapiens.
OS US2003032114-A1.
XX 13-FEB-2003.
XX 20-JUN-2002; 2002US-00176919.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
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DT 26-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #10.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
XX KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
XX KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003036124-A1.
XX PD 20-FEB-2003.
XX PF 26-JUN-2002; 2002US-00180998.
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 KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
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 XX 27-FEB-2003.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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XX AC ABUS4370;
XX DT 10-MAR-2003 (first entry)
XX DE Human secreted/transmembrane protein PRO234.
XX KW Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW gastrointestinal ulceration; skin disease;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW amyotrophic lateral sclerosis; inflammatory disease;
KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW diabetic complication; wound repair.
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XX PN US2002132240-A1.
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XX PF 18-JUL-2001; 2001US-00909320.
XX PR 17-SEP-1997; 97US-0059113P.
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 XX (GETH) GENENTECH INC.
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 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams PM, Wood WI;
 XX WPI; 2003-147434/14.
 DR N-PSDB; ABX71560.
 DR
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PT New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
 PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac
 PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
 PT disease.

PS Claim 12; Fig 50; 473pp; English.

XX The invention relates to an isolated PRO polypeptide having at least 80%
 CC amino acid sequence identity to: (a) any one of 61 fully defined amino
 CC acid sequences given in the specification (appearing as ABUS4347-
 CC ABUS4407); (b) an amino acid sequence encoded by the nucleotide sequence
 CC deposited under American Type Culture Collection (accession numbers
 CC listed in the specification); (c) any one of the PRO sequences which
 CC lacks its associated signal peptide; (d) an extracellular domain of the
 CC PRO polypeptide with its associated signal peptide; or (e) an
 CC extracellular domain of the PRO polypeptide which lacks its associated
 CC signal peptide. Also include are the nucleic acids encoding the PRO
 CC polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
 CC polypeptides and nucleic acids are useful in diagnosing or treating

CC enterocolitis, gastrointestinal ulceration, skin diseases associated with
 CC abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
 CC cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
 CC disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
 CC rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
 CC atherosclerosis, cardiac injury, infertility, birth defects, premature
 CC aging, AIDS, cancer, diabetic complications, or mutations in general. The
 CC polypeptides are also useful for wound repair and associated therapies
 CC concerned with re-growth of tissue. The nucleotide sequences may be used
 CC as hybridisation probes in chromosome and gene mapping, or in generating
 CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
 CC polypeptides, in assays to identify other proteins or molecules involved
 CC in binding reaction, to generate transgenic animals or knockout animals,
 CC which in turn are useful in the development and screening of
 CC therapeutically useful reagents, for chromosome identification, and
 CC tissue typing. The PRO polypeptides and nucleic acid molecules are also
 CC useful in gene therapy, and as molecular weight markers for protein
 CC electrophoresis purposes. The anti-PRO antibodies may be used in
 CC diagnostic assays for PRO, or for the affinity purification of PRO from
 CC recombinant cell culture or natural sources. The present sequence
 CC represents a PRO polypeptide
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SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
 Best Local Similarity 96.3%; Pred. No. 5.2e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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 Db 202 ETELTPVLPEETQBEDAKKTFKESREAAALNLAY 235

Search completed: September 9, 2004, 22:36:20

Job time : 127 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:18:00 ; Search time 60 Seconds
(without alignments)
1761.213 Million cell updates/sec

Title: US-09-887-855-2

Perfect score: 2000
Sequence: 1 MRPTALQAVLLAVLLVGLR.....PDQGRSKESGWENELIYG 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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6: geneseqp2003as.*
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8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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9	1986	99.3	382	4	AAB80235 Human PRO
10	1986	99.3	382	4	Aau29033 Human PRO
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36	1986	99.3	382	6	ABU80443 Human PRO
37	1986	99.3	382	6	ABO01797 Novel hum
38	1986	99.3	382	6	ABR99361 Human sec
39	1986	99.3	382	6	ABR98751 Human sec
40	1986	99.3	382	6	ABO16274 Human sec
41	1986	99.3	382	6	ABR92174 Human sec
42	1986	99.3	382	6	ABO18815 Human sec
43	1986	99.3	382	6	ABR78236 Human sec
44	1986	99.3	382	6	ABU84972 Novel hum
45	1986	99.3	382	6	ABO00111 Novel hum

ALIGNMENTS

RESULT 1
AAY93948
ID AAY93948 standard; protein; 374 AA.
XX AAY93948;
XX 03-OCT-2000 (first entry)
DT Amino acid sequence of a lectin ss3939 polypeptide.
DE Human; lectin ss3939; chromosome 11; gene therapy.
KW Homo sapiens.
XX Key
FH Peptide
FT /note= "signal peptide"
FT Domain
FT /note= "extracellular coding region"
FT Domain
FT /note= "predicted transmembrane domain"
FT Domain
FT /note= "predicted cytoplasmic or intracellular domain"
XX WO200039296-A1.
XX 06-JUL-2000.
XX 22-DEC-1999; 99WO-US030523.
XX 23-DEC-1998; 98US-0113820P.
XX (IMMV) IMMUNEX CORP.
XX Anderson DA;
XX WPI; 2000-452394/39.
XX N-PSDB; AAA57382.
XX ss3939 nucleic acids, polypeptides and antibodies, useful for identifying human chromosome 11 and diseases associated with it.
XX Claim 12; Page 8; 73pp; English.
XX The present sequence represents a human lectin ss3939 polypeptide. The polynucleotide sequence is a source of probes, which may be used to identify nucleic acids encoding ss3939 proteins, to identify human chromosome number 11, to map genes on human chromosome number 11, to

CC identify diseases associated with chromosome 11, as single-stranded sense
 CC or antisense oligonucleotides to inhibit expression of polypeptides
 CC encoded by the ss3939 gene, and for gene therapy. The ss3939 polypeptides
 CC may be useful for developing treatments for diseases (none specified)
 CC associated with defective or insufficient amounts of the polypeptides.
 CC The antibodies may be useful for detecting the presence of ss3939
 CC polypeptides
 XX
 SQ Sequence 374 AA;

Query Match 100.0%; Score 2000; DB 3; Length 374;
 Best Local Similarity 100.0%; Pred. No. 2.1e-182;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60

QY 61 EACRRDGGGOLVSTSEDEOKLEKTEIENLLPSDGFNGLRRREKQSNSTACODLYAWT 120
 DB 61 EACRRDGGGOLVSTSEDEOKLEKTEIENLLPSDGFNGLRRREKQSNSTACODLYAWT 120

QY 121 DGSISQFRNYYVDEPSCGSEVCVMYHOPSPAPAGIGGPFYMFQWDDRCNMKNFTICKYSD 180
 DB 121 DGSISQFRNYYVDEPSCGSEVCVMYHOPSPAPAGIGGPFYMFQWDDRCNMKNFTICKYSD 180

QY 181 EKPAPVPSRAEGEETLTPVLPSTOEDAKTKFESREALNAYLILPSILLILLV 240
 DB 181 EKPAPVPSRAEGEETLTPVLPSTOEDAKTKFESREALNAYLILPSILLILLV 240

QY 241 VTTVVCWWICRKRKEQPDSTKQHTIWPSPHOGNSPDLEVNVRKQSEADLAETRP 300
 DB 241 VTTVVCWWICRKRKEQPDSTKQHTIWPSPHOGNSPDLEVNVRKQSEADLAETRP 300

QY 301 DLKNIISFRVCSGEATPDDMSCDYDNMVPSESGFVTLVSVESGFVNTDIYFSPDQWGR 360
 DB 301 DLKNIISFRVCSGEATPDDMSCDYDNMVPSESGFVTLVSVESGFVNTDIYFSPDQWGR 360

QY 361 SKESGWNEIYGY 374
 DB 361 SKESGWNEIYGY 374

RESULT 2
 ID AAE03651
 AC AAE03651;
 XX
 DT 06-AUG-2001 (first entry)
 DE Human extracellular matrix and cell adhesion molecule-15 (XNAD-15).
 KW Human; extracellular matrix and cell adhesion molecule; XNAD;
 KW Gene therapy; genetic disorder; adrenoleukodystrophy; leukaemia;
 KW Down's syndrome; cystic fibrosis; Gaucher's disease; myotonic dystrophy;
 KW sickle cell anaemia; thalassaemia; autoimmune disorder; adenocarcinoma;
 KW inflammatory disorder; acquired immune deficiency syndrome; AIDS;
 KW Addison's disease; allergy; anaemia; asthma; atherosclerosis; melanoma;
 KW Crohn's disease; diabetes mellitus; atopic dermatitis; lymphoma; cancer;
 KW glomerulonephritis; multiple sclerosis; Grave's disease; osteoarthritis;
 KW osteoporosis; psoriasis; rheumatoid arthritis; ulcerative colitis;
 KW infection; cell proliferative disorder; actinic keratosis; myeloma;
 KW arteriosclerosis; noctropic; anticonvulsant; antithyroid; nephrotropic;
 KW neuroprotective; dermatological.
 XX Homo sapiens.
 OS
 XX
 PH Key Location/Qualifiers
 FT Peptide 1..24 /label= signal_peptide
 FT Protein 25..374 /note= "Mature human extracellular matrix and cell

FT Domain adhesion molecule (XNAD) "
 FT 46..63 /note= "C-type lectin domain"
 FT 163..176 /note= "C-type lectin domain"
 FT 224..247 /note= "C-type lectin domain"
 FT 328..348 /note= "Transmembrane motif"
 FT 374..374 /note= "Transmembrane motif"
 PN WO200142285-A2.
 XX 14-JUN-2001.
 PD 05-DEC-2000; 2000WO-US032990.
 PF 10-DEC-1999; 99US-0172852P.
 PR 16-DEC-1999; 99US-0172354P.
 XX (INCY-) INCYTE GENOMICS INC.
 PA Yue H, Tang YT, Lal P, Burford N, Azimzai Y, Patterson C;
 PI Baughn MR, Lu DAM, Shah P, Au-Young J;
 XX MPI: 2001-381632/40.
 DR N-PSDB; AAD08059.
 XX New human extracellular matrix and cell adhesion molecules and
 PT polynucleotide sequences encoding them, useful for diagnosis, prevention,
 PT treatment of genetic, autoimmune and cell proliferative disorders.
 XX Claim 1; Page 108-109; 135pp; English.

The present sequence is a human extracellular matrix and cell adhesion molecule (XNAD). The XNAD is used for screening a compound for effectiveness as an agonist or antagonist of XNAD. The identified agonist or antagonist are used for treating a disease or condition associated with decreased or increased expression of functional XNAD. The polynucleotides encoding XNAD are useful in somatic or germline gene therapy to correct a genetic deficiency, to express a conditionally lethal gene product and to express a protein which affords protection against intracellular parasites and also for diagnosis of disorders associated with expression of XNAD. They are also used for generating hybridisation probes useful in mapping the naturally occurring genomic sequences and to create knock in humanised animals (pigs) or transgenic animals (mice or rats) to model human diseases. Oligonucleotide or longer fragments derived from the polynucleotide sequences may be used as elements on a microarray. Antibodies which specifically bind XNAD may be used for the diagnosis of disorders associated with the expression of XNAD, or in assays to monitor patients being treated with XNAD. Diseases diagnosed, prevented or treated include genetic disorders such as adrenoleukodystrophy, Down's syndrome, cystic fibrosis, Gaucher's disease, myotonic dystrophy, sickle cell anaemia, thalassaemia, autoimmune/inflammatory disorders such as acquired immune deficiency syndrome (AIDS), Addison's disease, allergies, anaemia, asthma, atherosclerosis, Crohn's disease, diabetes mellitus, atopic dermatitis, glomerulonephritis, multiple sclerosis, Grave's disease, osteoarthritis, osteoporosis, psoriasis, rheumatoid arthritis, ulcerative colitis, bacterial, fungal, parasitic, protozoal and helminthic infections and cell proliferative disorders such as actinic keratosis, arteriosclerosis and cancer including breast, bladder, bone marrow, brain and uterus cancer, leukaemia, adenocarcinoma, lymphoma, melanoma and myeloma

Query Match 100.0%; Score 2000; DB 4; Length 374;
 Best Local Similarity 100.0%; Pred. No. 2.1e-182;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60


```
QY 61 EACRRDGGQLVSIIESEDEQKLIETFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120
DB 61 EACRRDGGQLVSIIESEDEQKLIETFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNMYVDPSGSEVGVVYHQPAPAGIGGYPYFQWDDRCNKNFICKYSD 180
DB 121 DGSISQFRNMYVDPSGSEVGVVYHQPAPAGIGGYPYFQWDDRCNKNFICKYSD 180
QY 181 EKPAVPSREAEGETELTTPVLPETQEDAKTKFKSREAAALNLAIVLIPSLILLV 240
DB 181 EKPAVPSREAEGETELTTPVLPETQEDAKTKFKSREAAALNLAIVLIPSLILLV 240
QY 241 VTTVVCWWMICRKRKEQDPSTKKQHTIWPSPHQGNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVVCWWMICRKRKEQDPSTKKQHTIWPSPHQGNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
DB 361 SKESGWVENEIYGY 374

RESULT 3
ABB90203
ID ABB90203 standard; protein; 374 AA.
AC ABB90203;
XX
DT 24-MAY-2002 (first entry)
DE Human polypeptide SEQ ID NO 2579.
KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiact; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein.
OS Homo sapiens.
XX
XX WO200190304-A2.
XX
XX 29-NOV-2001.
XX
XX 18-MAY-2001; 2001WO-US016450.
XX
XX 19-MAY-2000; 2000US-0205515P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Birse CE, Rosen CA;
XX
XX WPI: 2002-122018/16.
XX
XX N-PSDB; ABL90612.
XX
XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and
XX prevention of neural, immune system, muscular, reproductive,
XX gastrointestinal, pulmonary, cardiovascular, renal and proliferative
XX disorders.
XX
XX Claim 11; SEQ ID NO 2579; 2081pp + Sequence Listing; English.
XX
XX The invention relates to novel genes (ABL89449-ABL90853) and proteins
XX (ABB9040-ABB9044) useful for preventing, treating or ameliorating
XX medical conditions e.g. by protein or gene therapy. The genes are
XX isolated from a range of human tissues disclosed in the specification.
XX The nucleic acids, proteins, antibodies and (ant)agonists are useful in
XX the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
XX ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
XX breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
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CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: the sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at fcp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 374 AA;

Query Match 100.0%; Score 2000; DB 5; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.1e-182; Indels 0; Gaps 0;
Matches 374; Conservative 0; Mismatches 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQQPVCRGTQPCYKVYFHDTSRLNPEEAK 60
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQQPVCRGTQPCYKVYFHDTSRLNPEEAK 60
QY 61 EACRRDGGQLVSIIESEDEQKLIETFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120
DB 61 EACRRDGGQLVSIIESEDEQKLIETFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNMYVDPSGSEVGVVYHQPAPAGIGGYPYFQWDDRCNKNFICKYSD 180
DB 121 DGSISQFRNMYVDPSGSEVGVVYHQPAPAGIGGYPYFQWDDRCNKNFICKYSD 180
QY 181 EKPAVPSREAEGETELTTPVLPETQEDAKTKFKSREAAALNLAIVLIPSLILLV 240
DB 181 EKPAVPSREAEGETELTTPVLPETQEDAKTKFKSREAAALNLAIVLIPSLILLV 240
QY 241 VTTVVCWWMICRKRKEQDPSTKKQHTIWPSPHQGNSPDLEVYVIRKQSEADLAETRP 300
DB 241 VTTVVCWWMICRKRKEQDPSTKKQHTIWPSPHQGNSPDLEVYVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYFSPDQMR 360
DB 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
DB 361 SKESGWVENEIYGY 374

RESULT 4
ADA54522
ID ADA54522 standard; protein; 374 AA.
XX
XX ADA54522;
XX
XX 20-NOV-2003 (first entry)
XX
XX Human protein, SEQ ID 2090.
XX
XX Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
XX Gene Therapy; human; secretory protein; membrane proteins; cancer;
XX inflammatory disease; osteoporosis; neurological disease.
XX
XX Homo sapiens.
XX
XX EPI293569-A2.
XX
XX 19-MAR-2003.
XX
XX 21-MAR-2002; 2002EP-00006586.
XX
XX 14-SEP-2001; 2001JP-00328381.
XX
XX 24-JAN-2002; 2002US-0350435P.
XX
XX (HELI-) HELIX RES INST.
XX
XX (REAS-) RES ASSOC BIOTECHNOLOGY.
```

PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
 PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
 XX
 DR WPI; 2003-395539/38.
 DR N-PSDB; ADA52883.
 XX
 XX New polynucleotides encoding full-length polypeptides, e.g. secretory
 PT and/or membrane proteins, useful for developing medicines for diseases in
 PT which the gene is involved, or as target molecules for gene therapy.
 XX
 XX Claim 14; SEQ ID NO 2090; 205pp; English.
 XX
 XX The present invention relates to novel human secretory or membrane
 CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
 CC ADA54071). The coding sequences are useful in the gene therapy of
 CC diseases caused by abnormalities of the proteins, e.g. cancer,
 CC inflammatory diseases, osteoporosis or neurological disease.
 XX
 XX Sequence 374 AA;

Query Match 100.0%; Score 2000; DB 6; Length 374;
 Best Local Similarity 100.0%; Pred. No. 2.1e-182;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGTPCQVYFHDTSRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGTPCQVYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSEDEQKLEKFTENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSEDEQKLEKFTENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNWWYDEPSCGSEVCVMYHQPAPAGIGGPFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNWWYDEPSCGSEVCVMYHQPAPAGIGGPFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAPVSRAGEEETLTPVLPETQEDAKTKFKESREAAALNAYLIPSPILLV 240
 Db 181 EKPAPVSRAGEEETLTPVLPETQEDAKTKFKESREAAALNAYLIPSPILLV 240
 QY 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQSFDLEVNVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQSFDLEVNVIRKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMVPNPSGFTLVSVESGFVNDIYEFSPDQWR 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMVPNPSGFTLVSVESGFVNDIYEFSPDQWR 360
 QY 361 SKESGVENEIYGY 374
 Db 361 SKESGVENEIYGY 374

RESULT 5
 ADA54574
 ID ADA54574 standard; protein; 374 AA.
 XX
 AC ADA54574;
 XX
 DT 20-NOV-2003 (first entry)
 XX
 DE Human protein, SEQ ID 2142.
 XX
 KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
 KW Gene therapy; human; secretory protein; membrane proteins; cancer;
 KW inflammatory disease; osteoporosis; neurological disease.
 XX
 OS Homo sapiens.
 XX
 PN EP1293569-A2.
 XX
 PD 19-MAR-2003.

XX 21-MAR-2002; 2002EP-00006586.
 PF
 XX 14-SEP-2001; 2001JP-00328381.
 PR
 XX 24-JAN-2002; 2002US-0350435P.
 PR
 XX (HELI-) HELIX RES INST.
 PA
 XX (REAS-) RES ASSOC BIOTECHNOLOGY.
 XX
 XX Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
 PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
 XX
 XX WPI; 2003-395539/38.
 DR
 DR N-PSDB; ADA52935.
 XX
 XX New polynucleotides encoding full-length polypeptides, e.g. secretory
 PT and/or membrane proteins, useful for developing medicines for diseases in
 PT which the gene is involved, or as target molecules for gene therapy.
 XX
 XX Claim 14; SEQ ID NO 2142; 205pp; English.
 XX
 XX The present invention relates to novel human secretory or membrane
 CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
 CC ADA54071). The coding sequences are useful in the gene therapy of
 CC diseases caused by abnormalities of the proteins, e.g. cancer,
 CC inflammatory diseases, osteoporosis or neurological disease.
 XX
 XX Sequence 374 AA;

Query Match 99.8%; Score 1996; DB 6; Length 374;
 Best Local Similarity 99.7%; Pred. No. 5.1e-182;
 Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGTPCQVYFHDTSRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQGPVCRGTPCQVYFHDTSRLNFEAK 60
 QY 61 EACRRDGGQLVSEDEQKLEKFTENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSEDEQKLEKFTENLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNWWYDEPSCGSEVCVMYHQPAPAGIGGPFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNWWYDEPSCGSEVCVMYHQPAPAGIGGPFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAPVSRAGEEETLTPVLPETQEDAKTKFKESREAAALNAYLIPSPILLV 240
 Db 181 EKPAPVSRAGEEETLTPVLPETQEDAKTKFKESREAAALNAYLIPSPILLV 240
 QY 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQSFDLEVNVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRKRKEQDPSTKQHTIWPSPHQSFDLEVNVIRKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMVPNPSGFTLVSVESGFVNDIYEFSPDQWR 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMVPNPSGFTLVSVESGFVNDIYEFSPDQWR 360
 QY 361 SKESGVENEIYGY 374
 Db 361 SKESGVENEIYGY 374

RESULT 6
 AA91490
 ID AA91490 standard; protein; 374 AA.
 XX
 AC AA91490;
 XX
 DT 29-JUN-2000 (first entry)
 XX
 DE Human secreted protein sequence encoded by gene 40 SEQ ID NO:163.
 XX

KW Human; secreted protein; diagnosis; cytostatic; immunosuppressive;
 KW antiHIV; antiinflammatory; nontropic; neuroprotective; antiallergic;
 KW osteopathic; antiarthritic; antibacterial; antidiabetic; anasthma;
 KW antipsoriatic; cardiant; gene therapy; cancer; neurological disorder;
 KW immune disease; inflammation; blood disorder; tumour.
 XX
 OS Homo sapiens.
 XX
 PN WO200006698-A1.
 XX
 PD 10-FEB-2000.
 XX
 PF 29-JUL-1999; 99WO-US017130.
 XX
 PR 30-JUL-1998; 98US-0094657P.
 PR 05-AUG-1998; 98US-0095486P.
 PR 06-AUG-1998; 98US-0095454P.
 PR 06-AUG-1998; 98US-0095455P.
 PR 12-AUG-1998; 98US-0096319P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Komatsoulis GA, Rosen CA, Ruben SM, Duan R, Moore PA, Shi Y;
 PI Lafleur D, Wei Y, Ni J, Florence KA, Young PE, Brewer LA;
 PI Soppet DR, Endress GA, Ebner R, Olsen HS, Mucenski M;
 XX
 DR WPI; 2000-195282/17.
 DR N-PSDB; AAA26385.
 XX
 XX New isolated human genes and the secreted polypeptides they encode,
 PT useful for diagnosis and treatment of e.g. cancers, neurological
 PT disorders, immune diseases, inflammation or blood disorders.
 XX
 PS Claim 11; Page 483-484; 634pp; English.
 XX
 CC The polynucleotide sequences given in AAA26346 to AAA26458 encode the
 CC human secreted proteins given in AAY91451 to AAY91491. The human secreted
 CC proteins can have activities based on the tissues and cells they are
 CC expressed in. Examples of the activities are: cytostatic;
 CC immunosuppressive; antiHIV; antiinflammatory; nontropic; neuroprotective;
 CC antiallergic; osteopathic; antiarthritic; antibacterial; antidiabetic;
 CC antiasthma; antipsoriatic; and cardiant. The polynucleotides and their
 CC corresponding secreted proteins are useful for preventing, treating or
 CC ameliorating medical conditions, e.g. by protein or gene therapy. Also
 CC pathological conditions can be diagnosed by determining the amount of the
 CC proteins in a sample or by determining the presence of mutations in the
 CC polynucleotides. Specific uses are described for each of the
 CC polynucleotides, based on which tissues they are most highly expressed
 CC in, and include developing products for the diagnosis or treatment of
 CC cancer, tumours, neurodegenerative disorders, developmental abnormalities
 CC and foetal deficiencies, blood disorders, diseases of the immune system,
 CC autoimmune diseases, hepatic and renal disease, inflammation, allergies,
 CC Alzheimer's and behavioural disorders, schizophrenia, osteoporosis,
 CC arthritis, infections, AIDS, spinal cord injuries, transplant rejection,
 CC diabetes, asthma, sepsis, acne, psoriasis, cardiovascular disorders,
 CC reproductive disorders, gastrointestinal disorders, respiratory disorders
 CC and metabolic disorders. The proteins or polynucleotides can also be used
 CC as food additives or preservatives. The proteins are also useful for
 CC identifying their binding partners. AAA26337 to AAA26345 and AAY91450 are
 CC sequences used in the exemplification of the present invention
 XX
 SQ Sequence 374 AA;
 Query Match 99.5%; Score 1990; DB 3; Length 374;
 Best Local Similarity 99.5%; Pred. No. 1.9e-181;
 Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGPVCRGRTORPCVKYIFHDTGRRLLNFEAK 60
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGPVCRGRTORPCVKYIFHDTGRRLLNFEAK 60
 QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIEFNLLPSDGFWIGLRREKQSNSTACQDLYAWT 120

Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIEFNLLPSDGFWIGLRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNMYVDEPSCGSEVVCVMYHQSAPAGIGGYPYFQWDDRCNNKNNFKICKYSD 180
 Db 121 DGSISQFRNMYVDEPSCGSEVVCVMYHQSAPAGIGGYPYFQWDDRCNNKNNFKICKYSD 180
 QY 181 EKDAVPSREAEGBETELTTPVLPETQEEDAKTKFKESREAAALNLAYILPISPLILLLV 240
 Db 181 EKDAVPSREAEGBETELTTPVLPETQEEDAKTKFKESREAAALNLAYILPISPLILLLV 240
 QY 241 VTTVVCWWITCRKRKREQDPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 Db 241 VTTVVCWWITCRKRKREQDPSTKQHTIWPSPHQNSPDLEVYVIRKQSEADLAETRP 300
 QY 301 DLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFFVTNDIYFSPQMGR 360
 Db 301 DLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFFVTNDIYFSPQMGR 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374
 RESULT 7
 AAY13367
 ID AAY13367 standard; protein; 382 AA.
 XX AC AAY13367;
 XX DT 25-JUN-1999 (first entry)
 XX DE Amino acid sequence of protein PRO234.
 XX KW Secreted protein; transmembrane protein; human; enterocolitis;
 KW Zollinger-Ellison syndrome; gastrointestinal ulceration;
 KW congenital microvillus atrophy; skin disease; cell growth;
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
 KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
 KW dermal scarring; Usher Syndrome; Atrophina areata; anti-thrombotic;
 XX wound healing; tissue repair.
 XX OS Homo sapiens.
 XX WO9914328-A2.
 XX PD 25-MAR-1999.
 XX PF 16-SEP-1998; 98WO-US019330.
 XX PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059115P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059119P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059286P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 17-OCT-1997; 97US-0062287P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0062814P.
 PR 24-OCT-1997; 97US-0062816P.
 PR 24-OCT-1997; 97US-0063045P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 24-OCT-1997; 97US-0063121P.
 PR 24-OCT-1997; 97US-0063127P.
 PR 24-OCT-1997; 97US-0063128P.
 PR 27-OCT-1997; 97US-0063327P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.

PR 28-OCT-1997; 97US-00635444P.
 PR 28-OCT-1997; 97US-00635449P.
 PR 28-OCT-1997; 97US-0063550P.
 PR 28-OCT-1997; 97US-0063564P.
 PR 29-OCT-1997; 97US-00634335P.
 PR 29-OCT-1997; 97US-0063704P.
 PR 29-OCT-1997; 97US-0063732P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 29-OCT-1997; 97US-0063735P.
 PR 29-OCT-1997; 97US-0063738P.
 PR 29-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065848P.
 PR 18-NOV-1997; 97US-0065693P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 25-NOV-1997; 97US-0066840P.
 XX (GETH) GENENTECH INC.
 XX
 XX Wood WI, Gurney AL, Pennica D, Chen J, Yuan J;
 DR WPI; 1999-229533/19.
 DR N-PSDB; AAX52238.
 XX
 XX New isolated human genes and polypeptides used in, e.g. treatment of
 PT gastrointestinal ulceration.
 XX
 XX Claim 12, Fig 50; 320pp; English.
 XX
 XX AAY13344-403 represent secreted and transmembrane human proteins. The
 CC cDNA sequences are obtained from cDNA libraries, prepared from fetal
 CC lung, fetal kidney, fetal brain, fetal liver and fetal retina. The
 CC encoded polypeptides have specific uses based on their homology to known
 CC polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated
 CC with the preservation and maintenance of gastrointestinal mucosa and the
 CC repair of acute and chronic mucosal lesions (e.g. enterocolitis,
 CC Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital
 CC microvillus atrophy), skin diseases associated with abnormal keratinocyte
 CC differentiation (e.g. psoriasis, epithelial cancers such as lung squamous
 CC cell carcinoma of the vulva and gliomas), potent effects on cell growth
 CC and development, diseases related to growth or survival of nerve cells
 CC including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or
 CC cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal
 CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
 CC be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
 CC be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
 CC have therapeutic applications in wound healing and tissue repair; PRO317
 CC can be used for treating problems of the kidney, uterus, endometrium,
 CC blood vessels, or related tissue, e.g. in the heart of genital tract
 XX
 XX Sequence 382 AA;
 SQ
 Query Match 99.3%; Score 1986; DB 2; Length 382;
 Best Local Similarity 97.9%; Pred. No. 4.8e-181;
 Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVRCGGTQRCYKVIYFHTDSR 52
 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQVRCGGTQRCYKVIYFHTDSR 60
 QY 53 RLNFEEAKACRRDGGQLVISEDEQKLEIFENLLPSDGFVIGLRRREKQSNSTA 112
 DB 61 RLNFEEAKACRRDGGQLVISEDEQKLEIFENLLPSDGFVIGLRRREKQSNSTA 120

QY 113 CQDLVYAWTDGSI-SQFRNYYVDEPSCGSEVCVVVYHQPAPAGIGGYPWFQWVNDRCNMKN 172
 DB 121 CQDLVYAWTDGSI-SQFENYYVDEPSCGSEVCVVVYHQPAPAGIGGYPWFQWVNDRCNMKN 180
 QY 173 NFICKYSDEKPAVPSREARGETELTTPVLPEBTOEDAKTKFKESREAAALNLAIVLIPS 232
 DB 181 NFICKYSDEKPAVPSREARGETELTTPVLPEBTOEDAKTKFKESREAAALNLAIVLIPS 240
 QY 233 IPELLLLVTVVVCVWVWICRKRKREOPDSTKKQHTINPSPHQGNSPDLEVVNVIRKQSE 292
 DB 241 IPELLLLVTVVVCVWVWICRKRKREOPDSTKKQHTINPSPHQGNSPDLEVVNVIRKQSE 300
 QY 293 ADLAETRPDLKNI-SFRVCSGEATPDDMSCDYNMAVNPSESGFVTLVSVESEFVNDIYE 352
 DB 301 ADLAETRPDLKNI-SFRVCSGEATPDDMSCDYNMAVNPSESGFVTLVSVESEFVNDIYE 360
 QY 353 FSPDQGRSKESGWENEIYGY 374
 DB 361 FSPDQGRSKESGWENEIYGY 382
 RESULT 8
 ADC78457
 ID ADC78457 standard; protein; 382 AA.
 XX ADC78457;
 XX
 XX 01-JAN-2004 (first entry)
 XX Human PRO234 protein.
 DE
 XX antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
 XX neurotropic; neuroprotective; vasotropic; chemotactic; angiogenic;
 XX neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
 XX antiarteriosclerotic; cardiac; antidiabetic; cerebroprotective;
 XX thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
 XX gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
 XX Alzheimer's; ALS; neuropathy; dermal scarring; wound healing.
 XX nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
 XX asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
 XX atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
 XX diabetes; stroke; gene therapy; transgenic; PRO; human.
 XX Homo sapiens.
 OS
 XX WO2000015796-A2.
 PN
 XX 23-MAR-2000.
 PD
 XX 15-SEP-1999; 99WO-US021090.
 PF
 XX 16-SEP-1998; 98WO-US019330.
 PR
 XX (GETH) GENENTECH INC.
 PA
 XX Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
 PI Yuan J;
 PI
 XX WPI; 2000-271434/23.
 DR N-PSDB; ADC78456.
 XX
 XX Novel nucleic acids encoding secreted and transmembrane polypeptides with
 PT homology, e.g. to growth and cancer-associated antigens.
 XX
 XX Claim 12; SEQ ID NO 137; 355pp; English.
 PS
 XX The invention relates to a novel nucleic acid encoding a PRO polypeptide.
 CC The polypeptides and polynucleotides of the invention may be useful as
 CC research tools and as therapeutics for treating enterocolitis, Zollinger-
 CC Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
 CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
 CC scarring and wound healing, nerve repair, thrombosis, bone and/or

CC cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC infertility, premature aging, AIDS, diabetes complications and stroke.
CC The molecules may also be utilised during gene therapy procedures and
CC transgenic animal production. The current sequence is that of the human
CC PRO protein of the invention.

XX SQ Sequence 382 AA;

Query Match 99.3%; Score 1986; DB 3; Length 382;
Best Local Similarity 97.9%; Pred. No. 4.8e-181; Mismatches 0; Indels 8; Gaps 1;
Matches 374; Conservative 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCVKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQPCVKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQGLVSIETSEDEQKLEKFIENLLPSDGFWMGLRREEKQSNSTA 112
DB 61 RLNFEEAKEACRRDGGQGLVSIETSEDEQKLEKFIENLLPSDGFWMGLRREEKQSNSTA 120
QY 113 CQDIYAWTDGSIQFRNWNVYDPEPCGSEVVCVMYHQPAPAGIGGPFYMFQWDDRCNMKN 172
DB 121 CQDIYAWTDGSIQFRNWNVYDPEPCGSEVVCVMYHQPAPAGIGGPFYMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGBETELTTPVLPEETQEDAKTKPKESREAAALNLAYILIPS 232
DB 181 NFICKYSDEKPAVPSREAEGBETELTTPVLPEETQEDAKTKPKESREAAALNLAYILIPS 240
QY 233 IPLLILLVVTTCVWVICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 292
DB 241 IPLLILLVVTTCVWVICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 300
QY 293 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNNVAVNPSESGFVTLVSVESGFVTNDIYE 352
DB 301 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNNVAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQGRSKESGWENEIYGY 374
DB 361 FSPDQGRSKESGWENEIYGY 382

RESULT 9

AAB80235
ID AAB80235 standard; protein; 382 AA.
XX AC AAB80235;
XX DT 24-APR-2001 (first entry)
XX DE Human PRO234 protein.
XX KW Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW antiarthritic; antiinfertility; antidiabetic; antitvital; diabetes;
KW opthalmoallogical; gene therapy; skin disease; gastrointestinal disorder;
KW ischaemia; inflammation.
XX OS Homo sapiens.
XX PN WO200104311-A1.
XX PD 18-JAN-2001.
XX PF 22-FEB-2000; 2000WO-US0004414.
XX PR 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028564.
PR 08-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030311.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.

XX (GETH) GENENTECH INC.

PA Ashkenazi AJ, Botstein D, Desnoyers L, Baton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin LJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;

XX WPI; 2001-081051/09.
DR N-PSDB; AAF72396.

XX Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT disease).

XX Claim 1; Fig 50; 393pp; English.

XX The present sequence is one of sixty one novel secreted and transmembrane
CC PRO polypeptides. The PRO polypeptides are useful for treating skin
CC diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma),
CC gastrointestinal disorders (e.g. enterocolitis), neurodegenerative
CC diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair,
CC cardiovascular disorders (e.g. endometrial bleeding angiogenesis,
CC ischaemias such as coronary ischaemia, atherosclerosis), inflammatory
CC disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis),
CC infertility, AIDS and diabetes and retinal disorders such as retinitis
CC pigmentosum. The PRO nucleic acids have applications in molecular
CC biology, including use as hybridization probes, and in chromosome and
XX gene mapping

XX SQ Sequence 382 AA;

Query Match 99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. No. 4.8e-181; Mismatches 0; Indels 8; Gaps 1;
Matches 374; Conservative 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCVKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQPCVKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQGLVSIETSEDEQKLEKFIENLLPSDGFWMGLRREEKQSNSTA 112
DB 61 RLNFEEAKEACRRDGGQGLVSIETSEDEQKLEKFIENLLPSDGFWMGLRREEKQSNSTA 120
QY 113 CQDIYAWTDGSIQFRNWNVYDPEPCGSEVVCVMYHQPAPAGIGGPFYMFQWDDRCNMKN 172
DB 121 CQDIYAWTDGSIQFRNWNVYDPEPCGSEVVCVMYHQPAPAGIGGPFYMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGBETELTTPVLPEETQEDAKTKPKESREAAALNLAYILIPS 232
DB 181 NFICKYSDEKPAVPSREAEGBETELTTPVLPEETQEDAKTKPKESREAAALNLAYILIPS 240
QY 233 IPLLILLVVTTCVWVICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 292
DB 241 IPLLILLVVTTCVWVICRKRKEQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 300
QY 293 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNNVAVNPSESGFVTLVSVESGFVTNDIYE 352
DB 301 ADLAETRPDLKNIISFRVCSGEATPDDMSCDYDNNVAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQGRSKESGWENEIYGY 374

Db 361 FSPDQGRSKSGWVENEIYG 382
|||||

RESULT 10

AAU29033

ID AAU29033 standard; protein; 382 AA.

XX AAU29033;

DT 18-DEC-2001 (first entry)

DE Human PRO polypeptide sequence #10.

XX PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour; necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; cervix; rectum; liver; genetic disorder.
XX Homo sapiens.

OS WO200168848-A2.

PN 20-SEP-2001.

XX 28-FEB-2001; 2001WO-US006520.

XX 01-MAR-2000; 2000WO-US005601.

XX 02-MAR-2000; 2000WO-US005841.

XX 03-MAR-2000; 2000US-0187202P.

XX 06-MAR-2000; 2000US-0186968P.

XX 14-MAR-2000; 2000US-0189320P.

XX 14-MAR-2000; 2000US-0189328P.

XX 15-MAR-2000; 2000WO-US006884.

XX 21-MAR-2000; 2000US-0190828P.

XX 21-MAR-2000; 2000US-0191007P.

XX 21-MAR-2000; 2000US-0191048P.

XX 21-MAR-2000; 2000US-0191314P.

XX 28-MAR-2000; 2000US-0192655P.

XX 29-MAR-2000; 2000US-0193032P.

XX 30-MAR-2000; 2000US-0193053P.

XX 30-MAR-2000; 2000WO-US008439.

XX 04-APR-2000; 2000US-0194443P.

XX 04-APR-2000; 2000US-0194647P.

XX 11-APR-2000; 2000US-0195975P.

XX 11-APR-2000; 2000US-0196000P.

XX 11-APR-2000; 2000US-0196187P.

XX 11-APR-2000; 2000US-0196690P.

XX 11-APR-2000; 2000US-0196820P.

XX 18-APR-2000; 2000US-0198121P.

XX 18-APR-2000; 2000US-0198585P.

XX 25-APR-2000; 2000US-0199397P.

XX 25-APR-2000; 2000US-0199550P.

XX 03-MAY-2000; 2000US-0199654P.

XX 17-MAY-2000; 2000WO-US013705.

XX 22-MAY-2000; 2000WO-US014042.

XX 30-MAY-2000; 2000WO-US014941.

XX 02-JUN-2000; 2000WO-US015264.

XX 05-JUN-2000; 2000US-0203832P.

XX 28-JUL-2000; 2000WO-US020710.

XX 22-AUG-2000; 2000US-00644848.

XX 24-AUG-2000; 2000WO-US023328.

XX 08-NOV-2000; 2000WO-US030952.

XX 01-DEC-2000; 2000WO-US032678.

XX 20-DEC-2000; 2000WO-US034956.

XX (GETH) GENENTECH INC.

XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;

XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

XX WPI; 2001-602746/68.

DR N-PSDB; AAS45934.
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumors, such as prostate and breast tumors, in mammals and to
PT screen for modulators of the compounds.
XX Claim 11; Fig 20; 774pp; English.

XX Sequences AAU29033 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders
XX

SQ Sequence 382 AA;

Query Match 99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. No. 4.8e-181;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLRGQPVCRGGTQPCYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQVLSIESEDEOKLIEFIENLLPSDGDGFWIGLRRREKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQVLSIESEDEOKLIEFIENLLPSDGDGFWIGLRRREKQSNSTA 120
QY 113 CQDLVAMTDGSIQSFRNRYVDEPSCGSEVGVVYVYHQPSPAPAGIGGYPFQWNDRCNMKN 172
Db 121 CQDLVAMTDGSIQSFRNRYVDEPSCGSEVGVVYVYHQPSPAPAGIGGYPFQWNDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAGEETELTPVLPEETOEDAKTFKESREAAALNAVILLPS 232
Db 181 NFICKYSDEKPAVPSREAGEETELTPVLPEETOEDAKTFKESREAAALNAVILLPS 240
QY 233 IPLLILLVVTTCVWVWVICRKRKQPDSTKKQHTIMPSPHQGNSPDLVENVVIRKQSE 292
Db 241 IPLLILLVVTTCVWVWVICRKRKQPDSTKKQHTIMPSPHQGNSPDLVENVVIRKQSE 300
QY 293 ADLAETRPDLKNISFVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
Db 301 ADLAETRPDLKNISFVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360
QY 353 FSPDQGRSKSGWVENEIYG 374
Db 361 FSPDQGRSKSGWVENEIYG 382

RESULT 11

ABU58409

ID ABU58409 standard; protein; 382 AA.

XX ABU58409;

XX 15-APR-2003 (first entry)

XX Human PRO polypeptide #10.

XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADPRT;
KW antibody-dependent enzyme mediated prodrug therapy.

XX OS Homo sapiens.
XX OS US2003027272-A1.
XX PN 06-FEB-2003.
XX PD 21-JUN-2002; 2002US-00176492.
XX PF 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 11-DEC-1997; 97US-0066772P.
PR 12-DEC-1997; 97US-0069335P.
PR 17-DEC-1997; 97US-0069425P.
PR 18-DEC-1997; 97US-0069870P.
PR 10-MAR-1998; 97US-0068017P.
PR 11-MAR-1998; 98US-0074750P.
PR 11-MAR-1998; 98US-0077633P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 28-APR-1998; 98US-0082797P.
PR 29-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 05-MAY-1998; 98US-0083559P.
PR 06-MAY-1998; 98US-0084366P.
PR 07-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084635P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087209P.
PR 02-JUN-1998; 98US-0087609P.
PR 03-JUN-1998; 98US-0087753P.
PR 04-JUN-1998; 98US-0088027P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088036P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 24-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
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 DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDRGGQPCVCRGGTQPCYKVIYFHDTSR 60
 QY 53 RLNFEEAKEACRRDGGQLVSTSEDEQKLEKFTIENLLPSDGDWIGLRREERKQNSTA 112
 DB 61 RLNFEEAKEACRRDGGQLVSTSEDEQKLEKFTIENLLPSDGDWIGLRREERKQNSTA 120
 QY 113 CODLYAWTDGTSQFRNNYVDEPSCSVVMVHQPAPAGIGPYVFWNDRCNNKN 172
 DB 121 CODLYAWTDGTSQFRNNYVDEPSCSVVMVHQPAPAGIGPYVFWNDRCNNKN 180
 QY 173 NFICKYSDEKPAVPREAGEBETELTTPVLPEETQEDAKTTFKESREAAALNAYILIPS 232
 DB 181 NFICKYSDEKPAVPREAGEBETELTTPVLPEETQEDAKTTFKESREAAALNAYILIPS 240
 QY 233 IPLLVLVVTVVWVWICRKRKEOPDPSTKKOHTIWPSPHQNSPDLVYVIRKQSE 292
 DB 241 IPLLVLVVTVVWVWICRKRKEOPDPSTKKOHTIWPSPHQNSPDLVYVIRKQSE 300
 QY 293 ADLAETRPDLKNISPRVCSGEATPDMSCDYDNMAVNFSESGFVTLVSVESGFTNDIYE 352
 DB 301 ADLAETRPDLKNISPRVCSGEATPDMSCDYDNMAVNFSESGFVTLVSVESGFTNDIYE 360
 QY 353 FSPDQMGSRKESGWENEIYGY 374

Db 361 FSPDQMGSRKESGWENEIYGY 382
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 XX DT 16-JUN-2003 (first entry)
 XX DE Human PRO polypeptide #24.
 XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
 KW pathological disorder; cardiac insufficiency disorder; protein secretion;
 KW pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
 KW skin disease; keratinocyte differentiation; epithelial cancer; tumour;
 KW lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
 KW cytostatic; cardiac; endocrine; antidiabetic; gastrointestinal;
 KW antiulcer; dermatological; vulnery.
 XX OS Homo sapiens.
 XX PN US2002146709-A1.
 XX PD 10-OCT-2002.
 XX PF 18-JUL-2001; 2001US-00909088.
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Best Local Similarity 97.9%; Pred. No. 4.8e-18;			PR	17-DEC-1997;	97US-0069870P.
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QY	53	RINFEAKBACRDGGQLVSTSEDEQKLIKFIENLLPSDGFWIGLRREEKQSNSTA 112	PR	11-MAR-1998;	98US-0077649P.
Db	61	RINFEAKBACRDGGQLVSTSEDEQKLIKFIENLLPSDGFWIGLRREEKQSNSTA 120	PR	20-MAR-1998;	98US-0078886P.
QY	113	CODLYAWTSGISQPRNMYVDEPSCGSEVVMVHOPAPAGIGGYPYFQWDDRCNMKN 172	PR	20-MAR-1998;	98US-0078939P.
Db	121	CODLYAWTSGISQPRNMYVDEPSCGSEVVMVHOPAPAGIGGYPYFQWDDRCNMKN 180	PR	27-MAR-1998;	98US-0079654P.
QY	173	NFIKYSDEKPAVPREAGBETELTPVLPEETOEDAKTKFKESREAAALNLAIVILIPS 232	PR	27-MAR-1998;	98US-0079786P.
Db	181	NFIKYSDEKPAVPREAGBETELTPVLPEETOEDAKTKFKESREAAALNLAIVILIPS 240	PR	31-MAR-1998;	98US-0080107P.
QY	233	IPLLLLLVTTVCWWICRKKRQDPSTKQHTIWPSPHQGNPDLEVYNVIRKQSE 292	PR	31-MAR-1998;	98US-0080194P.
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QY	293	ADLAETRPDLKNISFRVCSGEATPDMSCDYDNMAVNPSESGFVLTVSVEGFTVNDIYE 352	PR	01-APR-1998;	98US-0080333P.
Db	301	ADLAETRPDLKNISFRVCSGEATPDMSCDYDNMAVNPSESGFVLTVSVEGFTVNDIYE 360	PR	08-APR-1998;	98US-0081049P.
QY	353	FSPDQMGSKSGWVENEIYG 374	PR	08-APR-1998;	98US-0081070P.
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XX ABR66146;

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XX DT 05-AUG-2003 (first entry)

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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7	1106	100.0	387	12	US-10-296-115-1311
8	1102	99.6	374	15	US-10-094-749-2142
9	1096	99.1	374	12	US-10-351-334-166
10	1092	98.7	382	9	US-09-909-320-137
11	1092	98.7	382	9	US-09-909-089B-137
12	1092	98.7	382	9	US-09-905-291A-137
13	1092	98.7	382	9	US-09-902-853-137
14	1092	98.7	382	9	US-09-907-824-137
15	1092	98.7	382	9	US-09-907-841-137

16	1092	98.7	382	10	US-09-904-011-137	Sequence 137, App
17	1092	98.7	382	10	US-09-906-742-137	Sequence 137, App
18	1092	98.7	382	10	US-09-906-838-137	Sequence 137, App
19	1092	98.7	382	10	US-09-907-613-137	Sequence 137, App
20	1092	98.7	382	10	US-09-907-942-137	Sequence 137, App
21	1092	98.7	382	10	US-09-904-859-137	Sequence 137, App
22	1092	98.7	382	10	US-09-903-204-137	Sequence 137, App
23	1092	98.7	382	10	US-09-904-820-137	Sequence 137, App
24	1092	98.7	382	10	US-09-904-786-137	Sequence 137, App
25	1092	98.7	382	10	US-09-906-646-137	Sequence 137, App
26	1092	98.7	382	10	US-09-906-700-137	Sequence 137, App
27	1092	98.7	382	10	US-09-903-786-137	Sequence 137, App
28	1092	98.7	382	10	US-09-902-903-137	Sequence 137, App
29	1092	98.7	382	10	US-09-903-749A-137	Sequence 137, App
30	1092	98.7	382	10	US-09-904-119-137	Sequence 137, App
31	1092	98.7	382	10	US-09-904-956-137	Sequence 137, App
32	1092	98.7	382	10	US-09-902-736-137	Sequence 137, App
33	1092	98.7	382	10	US-09-907-794-137	Sequence 137, App
34	1092	98.7	382	10	US-09-903-943-137	Sequence 137, App
35	1092	98.7	382	10	US-09-904-462-137	Sequence 137, App
36	1092	98.7	382	10	US-09-907-925-137	Sequence 137, App
37	1092	98.7	382	10	US-09-902-692-137	Sequence 137, App
38	1092	98.7	382	10	US-09-903-520-137	Sequence 137, App
39	1092	98.7	382	10	US-09-905-056-137	Sequence 137, App
40	1092	98.7	382	10	US-09-909-064-137	Sequence 137, App
41	1092	98.7	382	10	US-09-904-553-137	Sequence 137, App
42	1092	98.7	382	10	US-09-905-381-137	Sequence 137, App
43	1092	98.7	382	10	US-09-905-088-137	Sequence 137, App
44	1092	98.7	382	10	US-09-907-575-137	Sequence 137, App
45	1092	98.7	382	10	US-09-905-075-137	Sequence 137, App

ALIGNMENTS

RESULT 1
US-09-887-855-5
; Sequence 5, Application US/09887855
; Patent No. US2002058310A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5
; LENGTH: 206
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-5

Query Match 100.0%; Score 1106; DB 9; Length 206;
Best Local Similarity 100.0%; Pred. No. 1.3e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GRLLSQPVCRGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI	60
Db	3	GRLLSQPVCRGTQPCYKVIYFHDTSRLNFEAKACRRDGGQLVSI	62
Qy	61	KFTENLLPSDGFVIGLRREKQSNSTACDLYAWTDGSIQFNNWYV	120
Db	63	KFTENLLPSDGFVIGLRREKQSNSTACDLYAWTDGSIQFNNWYV	122
Qy	121	VMYHQSPAGIGGPPVFWFNDRCNMKNFTCKYSDSKPAVPSREAGE	180
Db	123	VMYHQSPAGIGGPPVFWFNDRCNMKNFTCKYSDSKPAVPSREAGE	182
Qy	181	ETQEDAKTKFKESREAAALNLAY	204
Db	183	ETQEDAKTKFKESREAAALNLAY	206

RESULT 2
 US-09-887-855-2
 ; Sequence 15, Application US/09887855
 ; Patent No. US2003004913A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunex Corporation
 ; APPLICANT: Anderson, Dirk M
 ; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
 ; FILE REFERENCE: 2883-US
 ; CURRENT APPLICATION NUMBER: US/09/887,855
 ; CURRENT FILING DATE: 2001-06-22
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-887-855-2

Query Match 100.0%; Score 1106; DB 9; Length 374;
 Best Local Similarity 100.0%; Pred. No. 2.9e-103;
 Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLE 60
 DB 24 GRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLE 83
 QY 61 KFIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWNVYDPSGSEVCV 120
 DB 84 KFIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWNVYDPSGSEVCV 143
 QY 121 VMYHQPAPAGIGGPPYFQWDDRCNMKNFICKYSDKPAVPSREAGEETEELTTPVLP 180
 DB 144 VMYHQPAPAGIGGPPYFQWDDRCNMKNFICKYSDKPAVPSREAGEETEELTTPVLP 203
 QY 181 EETQEDAKKTFKESREAAALNLAY 204
 DB 204 EETQEDAKKTFKESREAAALNLAY 227

RESULT 3
 US-10-149-819-15
 ; Sequence 15, Application US/10149819
 ; Publication No. US2003004913A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: YUE, Henry
 ; APPLICANT: AZIMZAI, Yalda
 ; APPLICANT: TANG, Y. Tom
 ; APPLICANT: PATTERSON, Chandra
 ; APPLICANT: BAUGHN, Mariah R.
 ; APPLICANT: LU, Dying Aina M.
 ; APPLICANT: SHAH, Purvi
 ; APPLICANT: LAL, Preeti
 ; APPLICANT: AU-YOUNG, Janice
 ; APPLICANT: BURFORD, Neil
 ; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
 ; FILE REFERENCE: PP-0760 PCT
 ; CURRENT APPLICATION NUMBER: US/10/149,819
 ; CURRENT FILING DATE: 2002-06-10
 ; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
 ; PRIOR FILING DATE: 1999-12-10; 1999-12-16
 ; NUMBER OF SEQ ID NOS: 42
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 15
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; NAME/KEY: misc.feature
 ; OTHER INFORMATION: incyte ID No. US2003004913A1 3143411CD1

US-10-149-819-15

Query Match 100.0%; Score 1106; DB 14; Length 374;
 Best Local Similarity 100.0%; Pred. No. 2.9e-103;
 Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLE 60
 DB 24 GRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLE 83
 QY 61 KFIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWNVYDPSGSEVCV 120
 DB 84 KFIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWNVYDPSGSEVCV 143
 QY 121 VMYHQPAPAGIGGPPYFQWDDRCNMKNFICKYSDKPAVPSREAGEETEELTTPVLP 180
 DB 144 VMYHQPAPAGIGGPPYFQWDDRCNMKNFICKYSDKPAVPSREAGEETEELTTPVLP 203
 QY 181 EETQEDAKKTFKESREAAALNLAY 204
 DB 204 EETQEDAKKTFKESREAAALNLAY 227

RESULT 4
 US-10-094-749-2090
 ; Sequence 2090, Application US/10094749
 ; Publication No. US20030219741A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ISOGAI, TAKAO
 ; APPLICANT: SUGIYAMA, TOMOYASU
 ; APPLICANT: OTSUKI, TETSUJI
 ; APPLICANT: WAKAMATSU, AI
 ; APPLICANT: SATO, HIROYUKI
 ; APPLICANT: ISHII, SHIZUKO
 ; APPLICANT: YAMAMOTO, JUN-ICHI
 ; APPLICANT: ISONO, YUUKO
 ; APPLICANT: HIO, YURI
 ; APPLICANT: OTSUKA, KAORU
 ; APPLICANT: NAGAI, KEIICHI
 ; APPLICANT: IRIE, RYOTARO
 ; APPLICANT: TAMECHIKA, ICHIRO
 ; APPLICANT: SEKI, NAOHICO
 ; APPLICANT: YOSHIKAWA, TSUTOMU
 ; APPLICANT: OTSUKA, MOTOKYUKI
 ; APPLICANT: NAGAHARI, KENJI
 ; APPLICANT: MASUHO, YASUHIKO
 ; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
 ; FILE REFERENCE: 064335/0160
 ; CURRENT APPLICATION NUMBER: US/10/094,749
 ; CURRENT FILING DATE: 2002-03-12
 ; PRIOR APPLICATION NUMBER: 60/350,435
 ; PRIOR FILING DATE: 2002-01-24
 ; PRIOR APPLICATION NUMBER: JP 2001-328381
 ; PRIOR FILING DATE: 2001-09-14
 ; NUMBER OF SEQ ID NOS: 3381
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2090
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-094-749-2090

Query Match 100.0%; Score 1106; DB 15; Length 374;
 Best Local Similarity 100.0%; Pred. No. 2.9e-103;
 Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLE 60
 DB 24 GRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLE 83
 QY 61 KFIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWNVYDPSGSEVCV 120
 DB 84 KFIENLLPSDGDGFWIGLRREERKQSNSTACQDLYAWTDGSIQFRNWNVYDPSGSEVCV 143

US-10-648-593-148

Query Match 100.0%; Score 1106; DB 16; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 60
Db 24 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 83
Qy 61 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 143
Qy 121 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 180
Db 144 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 203
Qy 181 BETQEDAKKTFKESREAAALNLAY 204
Db 204 BETQEDAKKTFKESREAAALNLAY 227

RESULT 7

US-10-296-115-1311
; Sequence 1311, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248A1 Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 1311
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-296-115-1311

Query Match 100.0%; Score 1106; DB 12; Length 387;
Best Local Similarity 100.0%; Pred. No. 3e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 60
Db 37 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 96
Qy 61 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 120
Db 97 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 156
Qy 121 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 180
Db 157 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 216
Qy 181 BETQEDAKKTFKESREAAALNLAY 204
Db 217 BETQEDAKKTFKESREAAALNLAY 240

RESULT 8

US-10-094-749-2142
; Sequence 2142, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI

US-10-264-237-2579

Query Match 100.0%; Score 1106; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 60
Db 24 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 83
Qy 61 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 143
Qy 121 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 180
Db 144 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 203
Qy 181 BETQEDAKKTFKESREAAALNLAY 204
Db 204 BETQEDAKKTFKESREAAALNLAY 227

RESULT 5

US-10-264-237-2579
; Sequence 2579, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P
; CURRENT APPLICATION NUMBER: US/10/264,237
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-237-2579

Query Match 100.0%; Score 1106; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 60
Db 24 GRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLE 83
Qy 61 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGFHWIGLRREKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCGSEVCV 143
Qy 121 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 180
Db 144 VMYHQSAPAGIGGYPYFQWDDRCNMKNFKICKYSDKPAVPSREAEGETELTTPVLP 203
Qy 181 BETQEDAKKTFKESREAAALNLAY 204
Db 204 BETQEDAKKTFKESREAAALNLAY 227

RESULT 6

US-10-648-593-148
; Sequence 148, Application US/10648593
; Publication No. US20040106132A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 NP
; CURRENT APPLICATION NUMBER: US/10/648,593
; PRIOR FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens

RESULT 10
US-09-309-320-137
Sequence 137, Application US/09509320
Patent No. US20020123240A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Dinstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hildan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tuma, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Tra

QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIES 52
 Db 24 GRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIES 83
 QY 53 EDEQKLIEXFIENLLPSDGFHWIGLRREKQSNSTACODLYAWTDGSIQFRNYYVDEP 112
 Db 84 EDEQKLIEXFIENLLPSDGFHWIGLRREKQSNSTACODLYAWTDGSIQFRNYYVDEP 143
 QY 113 SCGSEVCVVVYHQPAPAGIGPYFMQNDRCNKNMNFICKYSDKPAVPSREAEGEET 172
 Db 144 SCGSEVCVVVYHQPAPAGIGPYFMQNDRCNKNMNFICKYSDKPAVPSREAEGEET 203
 QY 173 ELTPVLPETQEDAKTKFESREAALNLAY 204
 Db 204 ELTPVLPETQEDAKTKFESREAALNLAY 235

RESULT 12

US-09-905-291A-137

; Sequence 137, Application US/09905291A

; Patent No. US20020160374A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/905,291A

; PRIOR FILING DATE: 2001-07-12

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-905-291A-137

Query Match 98.7%; Score 1092; DB 9; Length 382;

Best Local Similarity 96.2%; Pred. No. 7.8e-102;

Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIES 52
 Db 24 GRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRLNFEFEAKACRRDGGQGVLSIES 83
 QY 53 EDEQKLIEXFIENLLPSDGFHWIGLRREKQSNSTACODLYAWTDGSIQFRNYYVDEP 112
 Db 84 EDEQKLIEXFIENLLPSDGFHWIGLRREKQSNSTACODLYAWTDGSIQFRNYYVDEP 143
 QY 113 SCGSEVCVVVYHQPAPAGIGPYFMQNDRCNKNMNFICKYSDKPAVPSREAEGEET 172
 Db 144 SCGSEVCVVVYHQPAPAGIGPYFMQNDRCNKNMNFICKYSDKPAVPSREAEGEET 203
 QY 173 ELTPVLPETQEDAKTKFESREAALNLAY 204
 Db 204 ELTPVLPETQEDAKTKFESREAALNLAY 235

RESULT 13

US-09-902-853-137

; Sequence 137, Application US/09902853

; Publication No. US20020192659A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,853
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-902-853-137

Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEKEAKCRRDGGQLVSTES 52
DB 24 GRLLSASDLDRGGQFVCRGGTQPCYKVIYFHDTSRLNFEKEAKCRRDGGQLVSTES 83
QY 53 EDEQKLEKFTENLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 112
DB 84 EDEQKLEKFTENLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 143
QY 113 SCGSEVCMVYHQSPAPAGIGGYPYFQNDRCNNKNNFIKYSDEKPAVPSRAEGSET 172
DB 144 SCGSEVCMVYHQSPAPAGIGGYPYFQNDRCNNKNNFIKYSDEKPAVPSRAEGSET 203
QY 173 ELTTPVLPEETOEDAKTKFESRAALNLAY 204
DB 204 ELTTPVLPEETOEDAKTKFESRAALNLAY 235

RESULT 14
US-09-907-824-137
Sequence 137, Application US/09907824
Publication No. US20020197671A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David

Desnoyers, Luc
Baton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Klavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,824
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-824-137

Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEKEAKCRRDGGQLVSTES 52
DB 24 GRLLSASDLDRGGQFVCRGGTQPCYKVIYFHDTSRLNFEKEAKCRRDGGQLVSTES 83
QY 53 EDEQKLEKFTENLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 112
DB 84 EDEQKLEKFTENLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 143
QY 113 SCGSEVCMVYHQSPAPAGIGGYPYFQNDRCNNKNNFIKYSDEKPAVPSRAEGSET 172
DB 144 SCGSEVCMVYHQSPAPAGIGGYPYFQNDRCNNKNNFIKYSDEKPAVPSRAEGSET 203
QY 173 ELTTPVLPEETOEDAKTKFESRAALNLAY 204
DB 204 ELTTPVLPEETOEDAKTKFESRAALNLAY 235

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QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIES 52
    |||||
Db 24 GRLLSASDLDRGGQPCVCGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIES 83
    |||||
QY 53 EDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 112
    |||||
Db 84 EDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 143
    |||||
QY 113 SCGSEVCVVMYHQPAPAGIGGYPYFQWMDRCNMKNFICKYSDEKPAVPSREAEGBET 172
    |||||
Db 144 SCGSEVCVVMYHQPAPAGIGGYPYFQWMDRCNMKNFICKYSDEKPAVPSREAEGBET 203
    |||||
QY 173 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 204
    |||||
Db 204 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
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RESULT 15

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US-09-907-841-137
; Sequence 137, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29

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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-841-137

Query Match      98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIES 52
    |||||
Db 24 GRLLSASDLDRGGQPCVCGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIES 83
    |||||
QY 53 EDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 112
    |||||
Db 84 EDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEP 143
    |||||
QY 113 SCGSEVCVVMYHQPAPAGIGGYPYFQWMDRCNMKNFICKYSDEKPAVPSREAEGBET 172
    |||||
Db 144 SCGSEVCVVMYHQPAPAGIGGYPYFQWMDRCNMKNFICKYSDEKPAVPSREAEGBET 203
    |||||
QY 173 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 204
    |||||
Db 204 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
    |||||

RESULT 16
US-09-904-011-137
; Sequence 137, Application US/09904011
; Publication No. US20030003530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222

```

APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,742
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-906-742-137

Query Match 98.7%; Score 1092; DB 10; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 GLLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSTES 52
DB 24 GLLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSTES 83
QY 53 EDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEP 112
DB 84 EDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEP 143
QY 113 SCGSEVCVMYHQPAPAGIGGYPYFQWDDRCNNKNNFICKYSDKPAVPSREAGEET 172
DB 144 SCGSEVCVMYHQPAPAGIGGYPYFQWDDRCNNKNNFICKYSDKPAVPSREAGEET 203
QY 173 ELTTPVLPETQEDAKKTFKESREAAALNLAY 204
DB 204 ELTTPVLPETQEDAKKTFKESREAAALNLAY 235
RESULT 17
US-09-906-742-137
Sequence 137, Application US/09906742
Publication No. US20030023054A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.

Db 144 SCGSEVVMYHQPSPAGIGGPFQWNNDRCNMKNFICKYSDEKPAVPSREAGEET 203
 QY 173 ELTTPVLPETQEDAKKTFKESREAALNAY 204
 Db 204 ELTTPVLPETQEDAKKTFKESREAALNAY 235

RESULT 18

US-09-906-838-137
 ; Sequence 137, Application US/09906838
 ; Publication No. US20030027143A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/906,838
 ; PRIORITY FILING DATE: 2001-07-16
 ; PRIOR APPLICATION NUMBER: 09/665,350
 ; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-09-906-838-137

Query Match 98.7%; Score 1092; DB 10; Length 382;
 Best Local Similarity 96.2%; Pred. No. 7.8e-102;
 Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQPVCRGGTQPCVKYIYFHDTSRRLNFEAKEACRRDGGQLVSIES 52
 Db 24 GRLLSASDLRLRGQPVCRGGTQPCVKYIYFHDTSRRLNFEAKEACRRDGGQLVSIES 83
 QY 53 EDEQKLIKFIENLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEP 112
 Db 84 EDEQKLIKFIENLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEP 143
 QY 113 SCGSEVVMYHQPSPAGIGGPFQWNNDRCNMKNFICKYSDEKPAVPSREAGEET 172
 Db 144 SCGSEVVMYHQPSPAGIGGPFQWNNDRCNMKNFICKYSDEKPAVPSREAGEET 203
 QY 173 ELTTPVLPETQEDAKKTFKESREAALNAY 204
 Db 204 ELTTPVLPETQEDAKKTFKESREAALNAY 235

RESULT 19

US-09-907-613-137
 ; Sequence 137, Application US/09907613
 ; Publication No. US20030027145A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/907,613
 ; PRIORITY FILING DATE: 2001-07-17
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07